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BULLETIN

OF THE

Mississippi Agricultural and Mechanical College

CATALOGUE, 1907-1908

ANNOUNCEMENTS 1908-1909

AGRICULTURAL COLLEGE, MISSISSIPPI

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OF THE

Mississippi Agricultural and Mechanical College

TWENTY-EIGHTH ANNUAL CATALOGUE.

1907-1908

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Announcement 1908-1909

TUCKER PRINTING HOUSE, JACKSON, MISS.

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Hon. Geo. R. Edwards	Ex-Officio Treasurer.
Hon. J. N. Powers	Ex-Officio Trustee.
A. J. Moore	Secretary.

TRUSTEES WHOSE TERMS EXPIRE IN 1910.

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TRUSTEES WHOSE TERMS EXPIRE IN 1912.

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William Howard Maruder, M. A., Professor of English.

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Washington Lafayette Hutchinson, M. Sc., Director of the School of Agriculture and Experiment Stations.

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Jack Percival Montgomery, A. M., Ph. D., Associate Professor of Chemistry.

James Shook Wallace, B. Sc., Assistant Professor in the Preparatory Department.

Christopher Randolph Stark, B. Sc., Assistant Professor of Mathematics.

George Lemon Clothier, M. S., M. F., Assistant Professor of Horticulture, in charge of Forestry and Plant Breeding.

Dennis Clyde Mooring, M. S., Assistant Professor of Horticulture.

F. M. Darnall, A. B., Assistant Professor of English.

Randle Churchill Carpenter, B. Sc., Superintendent of Power and Instructor in Forge and Foundry Practice.

Andrew Maret Maxwell, Instructor in Bookkeeping.

James Enoch McKell, B. Sc., Instructor in the Preparatory Department.

Matthew Livingston Freeman, B. S. T. E., Instructor in Drawing.

Thomas M. Spinks, B. Sc., Instructor in Machine Shop Practice.

James Robert Ricks, M. Sc., Superintendent of Farm and Assistant Agronomist.

Frederic Davis Mellen, A. B., Instructor in English.

Virgil William Bragg, Instructor in Manual Training and Woodshop Practice.

Frank Cleveland Bolton, B. Sc., Instructor in Physics.

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Albert Lee Love, B. Sc., Instructor in English.

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Howard Sidney Chilton, B. Sc., Assistant Chemist.

Wilkinson Stark, B. Sc., Assistant Chemist.

Warren Davis Reid, B. Sc., Assistant Chemist.

James Everette Jacob, B. Sc., Assistant Chemist.

Herbert Johnson Smith, B. Sc., Assistant in Chemistry.

Hugh W. Stallworth, B. Sc., Assistant in Chemistry.

Harry F. Fore, A. B., B. S., Instructor in English.

John Brewer Bagley, A. B., Instructor in Textile Industry.

Miss Lois DeBaun, Instructor in Preparatory Department.

——————————, College Surgeon.

Albert Jourdan Moore, B. Sc., Secretary and Purchasing Agent.

Calvin Brewster Powell, B. B. S., Assistant Secretary.
Miss Mary Florence Gay, B. A., Stenographer.
Miss Willie Sidney Gay, B. A., Stenographer for Experiment Station and Chemical Laboratory.
Edward Marvin Dodd, Private Secretary to the President.
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Samuel E. Oliver, Steward.
John Joseph Hood, Manager of the Laundry.
Charles I. Bray, B. S. A., M. Sc., Dairy Herdsman.
William W. Routten, Director of the Band.
Frederic J. Furman, A. B., Physical Director.
Edward Austin Grosvenor, Hospital Nurse.
Roby C. Day, A. B., General Secretary of the Y. M. C. A.
John C. Kean, Herdsman Animal Husbandry Department
Perley B. Monosmith, Florist.
Deleon H. Thomas, B. Sc., Fellow in Dairy Husbandry.
Harry M. Parker, B. Sc., Fellow in Agriculture.
John A. Herrington, B. Sc., Fellow in Mechanical Engineering.

STANDING COMMITTES OF THE FACULTY.

On the Library—Professors Walker, Herbert, Herrick, Barnes, Garner, Raiford.

On the Catalogue—Herbert, Robert, Herrick, Hancock, Bowen, Meadows.

On Examinations—Magruder, Meadows, Herbert, Barnes, Hull, Logan.

On Courses of Instruction—Walker, Hutchinson, Lloyd, Herrick, Hand, Barnes, Ard, Hull, Moore, Meadows Smith.

On Classification of Students—Magruder, Hutchinson, Walker, Hull, Meadows.

GENERAL STATEMENT.

OBJECTS AND HISTORY OF THE COLLEGE.

The college owes its origin to an act of the General Government, passed in 1862, to encourage the establishment of industrial colleges in the States to benefit "Agriculture and the Mechanic Arts." This act, among other things provides for the "endowment, support and maintenance in each state of at least one college, where the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts in such manner as the legislatures of the States may respectively prescribe in order to promote the liberal and practical education of the industrial classes."

The status of the Agricultural Land Scrip Fund, donated by the United States Government, is as follows: The scrip representing 207,920 acres of public land, was sold for about ninety cents per acre, realizing in currency $188,298. This amount, by judicious management was increased to $227,150, which is now in the state treasury, represented by thirty-two-year bonds, running from 1896 to 1928, bearing six per cent. interest per annum.

The Legislature, by the Act of February 28, 1878, divided the sum equally between Alcorn Agricultural and Mechanical College and this college, giving to each $113,575. A subsequent Legislature authorized the sale of $15,000 worth of bonds to purchase lands; so that the amount now in the state treasury to the credit of this college is $98,575, yielding an annual income of $5,914.50.

The Legislature of Mississippi, in accepting this endowment—a trust fund from the General Government—prescribed the following in the powers given to the Board of Trustees:

"The establishment and maintenance of a first-class institution, at which the youth of the state may acquire a common school education and a scientific and practical knowledge of agriculture, horticulture, and the mechanic arts; also, the proper growth and care of stock, without, however, excluding other scientific and classical studies, including military tactics.

"They shall regulate the course of study, rates of tuition, management of experimental farm, manner of performing labor, and the kinds of labor to be performed by students."

The acts of the General and State Governments plainly define the objects of the college. The "leading objects" must be to "benefit agriculture and the mechanic arts." Should studies be taught other than such as relate to these interests, they are to be considered secondary, and rather as means by which to comprehend more readily the sciences underlying agriculture and the mechanic arts.

The instruction at the college must be such as to educate and direct the minds and tastes of students to agriculture, horticulture, care and growth of stock, management of farms, manner of performing labor, and to the mechanic arts. The college is not to be in the strictest sense literary, classical or military; but rather, it is to be a college in which the industrial classes shall be given a general education, combined with such scientific and practical knowledge as will make them familiar with the nature of objects and the forces with which they have to deal.

This necessitates that special stress should be laid on such sciences as underlie agriculture and the mechanic arts, viz.: chemistry, botany, geology, zoology, entomology, physiology, mechanics, mathematics, physics, etc. To understand these properly a very liberal culture, especially in English, is requisite. The various conditions contributing to an intelligent understanding of agriculture and the mechanic arts comprehend an education as broad and liberal as that needed in mastering any profession. This education, however, must, of necessity, differ in kind. Students whose education is intended to promote the interests designated in the Acts must omit some studies taught in other colleges, looking to a general or special training. This education, too, is to be practical and industrial; students must not only be familiar with farms, machinery for iron and woodwork, and tools, but they must also labor themselves, and in this labor find part of their education, the object of which is to create a taste for agriculture and mechanical pursuits, and to fix and preserve habits of industry.

In conformity with the acts designated, the Board of Trustees located the Mississippi Agricultural and Mechanical College in Oktibbeha county, one and a half miles from the town of Starkville.

The college is on a permanent basis, the legislature having made ample provision for both agricultural and mechanical instruction, both in theory and practice. There are now provided four courses, agricultural, engineering, textile, and pedagogical, all leading to the degree of Bachelor of Science in the collegiate department. The farm, creamery, stock barns and sheds, gardens, orchards, and shops for instruction in wood and iron and foundry work, are ample for practical training.

The Trustees have established a preparatory and a collegiate course, which afford the youth of the state ample means of acquiring, in accordance with the law, a thorough elementary education and a scientific and practical knowledge of agriculture and mechanic arts.

The large number of students in attendance each year shows that the college supplies a long-felt want to the people of the state, by giving a thoroughly practical education to its youth. It is evident that a large class of our people desire the young men of the state to combine manual labor and laboratory work with literary instruction; and this is a correct idea, where boys are to be educated for industrial pursuits. Training of this kind should be in connection with farm and shop, where industrious habits may be preserved, or where such habits may be acquired by those not having them already. Study for four years without the habit of manual labor creates a disinclination for such work, and tends to separate brain work and hand work, giving discredit to the latter.

The development of our agricultural and mechanical interests necessitates that theory and practice go together in the education of the farmer and the mechanic. If this is true of the other professions, why not of the farmer? The labor feature corresponds to the technical and expensive instruction that is given at West Point and Annapolis in the numerous drills, encampments, cruises, etc., to that given in hospitals and dissecting rooms of medical colleges; to that in the moot courts of the law schools; and to that in the field work of the engineer.

The instructions in the academic and scientific departments is of the highest importance, and nothing can take precedence over it. The industrial feature comes next, and with it is joined the pecuniary assistance which a student can obtain by his work. It differs from that of the old manual labor school in this: there the important matter was to work enough to pay all expenses, the education being a secondary consideration compared with earning enough money to pay one's way. The boy who labors most of his time is physically too tired to accomplish much in his studies, whereas, moderate labor facilitates study. It is desirable that this feature should be understood in connection with the college. It must not be thought that a boy can work his way through by his labor and also get a first-class education. It is impossible to do both. He could not accomplish both if he had a school at his very door. A student here has many advantages; he not only gets his tuition free, but has an opportunity to work and pay for part of his board by his own labor. At home he would have to incur the expense of board and clothing—an expense unavoidable in attending school under any conditions.

EXTRACTS FROM THE LAW IN THE CODE.

Tuition Free and Not Free—"Tuition shall be free in all branches to students of this State for five years."

Dormitory Privileges—"The privilege of rooming in the dormitory belongs to the free students, and the due quota of boys from each county in preference to all others."

Apportionment of Students—"The right belongs to each county to have a number of students admitted proportionate to its number of white educable males compared with the whole number in the state."

The Same, How Made—"The apportionment shall be made and announced by the President of the College annually, and communicated to the Superintendents of Education of the counties."

The Same, Duty of Superintendent.—"The Superintendent of each county after due notice published, with the consent of the Board of Supervisors shall give certificates of selection to the number of students to which the county is entitled, and this, in addition to those already in the college, if any. And this selection of new students shall be made by drawing."

The Same, How Certificates Attested, etc.—The certificate of selection shall be attested by the Clerk of the Board of Supervisors under its seal, and shall entitle the holder to admission into the college, with all its privileges, to pursue all its industrial branches selected, and to enter the sub-class or class for which he is fitted."

In 1882 the Board of Trustees passed resolutions for the admission of girls as students at the college. But the college is not equipped for supplying board and lodging for women, hence the attendance of young ladies is not solicited. If, however, young ladies desire to enter the college, and can secure board either in town or on the campus in private families, they will be admitted as regular students. This information is furnished for the benefit of any young ladies who may desire to enter, knowing that it is impossible for them to receive that vigilant attention here which they would receive at an institution specially fitted for the education of women.

A limited number of students from other states will be received into the college next year should they apply. Students from other states will be on the same footing as students from Mississippi, except that they will not be allowed to live in the dormitory, unless there are rooms not required for Mississippi students. All such students entering below the sophomore class will be charged a tuition fee of thirty dollars ($30.00). Those entering the sophomore or junior class will be charged a tuition fee of forty dollars ($40.00), and those entering the senior class a fee of fifty dollars, ($50.00.)

No part of this fee will be refunded because of a student's remaining less than a session.

APPORTIONMENT OF STUDENTS.

The following apportionment of students to the different counties is announced for the session of 1908 and 1909:

County.	No. Entitled.	County.	No. Entitled
Adams	7	Lauderdale	30
Alcorn	15	Lawrence	13
Amite	15	Leake	17
Attala	22	Lee	20
Benton	9	Leflore	4
Bolivar	5	Lincoln	18
Calhoun	19	Lowndes	11
Carroll	17	Madison	11
Chickasaw	14	Marion	13
Choctaw	14	Marshall	16
Claiborne	7	Monroe	19
Clarke	16	Montgomery	13
Clay	11	Neshoba	16
Coahoma	7	Newton	19
Copiah	25	Noxubee	16
Covington	12	Oktibbeha	11
DeSoto	9	Panola	13
Forrest	7	Perry	11
Franklin	9	Pearl River	9
Greene	7	Pike	20
Grenada	6	Pontotoc	18
Hancock	9	Prentiss	16
Harrison	15	Quitman	4
Hinds	16	Rankin	15
Holmes	12	Scott	13
Issaquena	4	Sharkey	4
Ittawamba	20	Simpson	11
Jackson	14	Smith	15
Jasper	14	Sunflower	6
Jefferson	7	Tallahatchie	9
Jefferson Davis	4	Tate	13
Jones	20	Tippah	13
Kemper	15	Tishomingo	13
Lamar	9	Tunica	4
Lafayette	22	Union	15

County.	No. Entitled.	County.	No. Entitled.
Washington	8	Warren	13
Wayne	8	Winston	16
Webster	13	Yalobusha	13
Wilkinson	8	Yazoo	13

Should more than the number apportioned to a county desire to attend the college, they will send in their applications, through their county superintendent to the President of the College. As all counties do not send their full quota there is always room for some students who make applications in the manner above described. The Code of 1906, extracts from which have been given, virtually devolves upon the county superintendents the responsibility of having their counties represented at the college. The President and the Secretary of the college will at all times cheerfully co-operate with them in securing the quota of students from their counties and to this end will supply all necessary catalogues and circulars, and will, by correspondence, give full information desired.

CONDITIONS OF ADMISSION.

Applicants must be in good health and not less than sixteen (16) years of age. Should, however, two brothers, one above and the other a little under the specified age, apply, exception will be made in the case of the latter, if he is well qualified in other respects. Those who have been students at other colleges must bring with them testimonials of honorable discharge.

All students, on entering college, are required to sign the following pledge:

"I, ..., do by this instrument of writing acknowledge my obligation, while I am student of the MISSISSIPPI AGRICULTURAL AND MECHANICAL COLLEGE, to obey its regulations.

"I especially pledge my honor that I will not have in my possession, during term time, or while I remain at the college during vacation, without the written consent of the President, any deadly weapon, except such arms as are furnished by the Military Department.

"I do further pledge myself on honor not to become, while I am a student here, a member of any secret club, society or fraternity whatever, nor to wear the badge of any such secret order; not to affiliate with any secret college organization; not to encourage the inauguration or maintenance among the students of this college of such societies, clubs or fraternities, by whatever name they may be designated; but I pledge myself to actively discourage the same, and to bring to the attention of the President or of the Faculty every violation or proposed violation of the college regulations against secret societies; provided, however, that this pledge is not to prevent my becoming a member of any of the well-known charitable and benevolent orders to which all good citizens, without distinction of class or occupation, are admitted; nor is it to prevent my affiliating with the same under such restrictions as the President and Faculty may impose.

"I do further especially pledge myself on honor that I will not treat with disrespect, by shouting or otherwise, any officer or student of the college, any visitor upon the grounds, or any applicant for admission to the college, and that I will not engage in 'hazing' or in any other maltreatment of a fellow student or of any other person on the college grounds, whether a resident or a visitor.

"Acknowledging by my signature that I fully understand the nature of this instrument of writing, I again pledge my honor that I will carry out in good faith the spirit and the letter of this agreement by which I become entitled to the benefits of membership in the Corps of Students in the Mississippi Agricultural and Mechanical College."

Every student in taking the above pledge, obligates himself to abstain from cigarette smoking, from gambling of every description, and from the use of all intoxicating drinks. The state is not willing to waste money in trying to educate any of these classes of young men, for it cannot be done.

Unless a young man is willing to take the above pledge in good faith, he is advised to remain away; for no such young man will be tolerated in the college.

Applicants for admission into the preparatory department must be able to read ordinary prose readily and intelligently, spell words of common use, and explain the construction of simple English sentences. They must also be well acquainted with the principles and operations of arithmetic through common and decimal fractions.

No student, however, will be admitted to the preparatory department unless he presents a certificate from his county superintendent saying he is not in reach of a high school, nor of a graded school. The preparatory department here is intended only for those who can not get such preparatory education at home as will fit them for our freshman class.

Applicants for the freshman class will be required to pass a good examination on English grammar, arithmetic, geography, and history of the United States.

Applicants will be admitted into any class in the college at any time, if they can pass a satisfactory examination on all of the preceding studies of the course.

Those who desire to devote their attention to the study of special subjects bearing on agriculture or the mechanic arts, may take a select course, provided they pass an examination which would admit them into the freshman class, and, in addition, such examination as the professor in charge of the department selected shall prescribe.

Should students desire to take a select course on account of failure in any entrance examination in the regular course, they will be permitted to do so.

EXPENSES.

All students are charged a matriculation fee of five dollars. After five years, a tuition fee of $30.00 is charged each session, all of which must be paid whether a student remains at the college an entire session or not. A tuition fee is charged annually for students from other states.

The Hospital and Gymnasium fee, which includes attention and medicine, and training in gymnastics is $7.00 for each student, and must be paid at the beginning of each session, or when he enters.

The college furnishes a room in the dormitory free of rent, also the use of a limited number of single iron bedsteads for seventy-five cents each per session; but students must supply themselves with all necessary furniture, such as reading-tables, wash-stands, chairs, etc., which, when two boys are together, cost about $6.00 each. These things can usually be purchased here to good advantage; but such articles as blankets, sheets and towels should be brought from home.

Students of the junior and senior classes pay for the apparatus they break. Text-books and drawing material will probably cost, on an average, not exceeding $5.00 per term for students in the freshman class, and $4.00 per term for those in the preparatory department.

The dormitory is heated with steam from a central power plant. Fuel will be charged at actual cost, which for one session, will probably not exceed $9.00 for each student living in the dormitory. In order to make this expense as little burden as possible, a charge of from $1.00 to $1.50 per month is made against the account of each dormitory student until the coal bought for the season has been paid for. Day students will be charged each session, in advance, a fuel fee of $3.00.

The buildings are supplied with electric lights, and with water from a well about one thousand feet deep. Students pay for light and water, including bath-house supplies, at a cost of about fifty to sixty cents per month for each student.

The college owns and operates a steam laundry where all the regular work of the students is done at a cost of $1.25 per month for each.

Board is furnished at actual cost, the necessary groceries and supplies being bought at wholesale wherever they can be bought to the best advantage. The expenses at the end of each month are made up and divided among the students in the dormitory. They include the cost of keeping up the dining-hall, sweeping the halls of the dormitory, replacing broken crockery, etc., necessary to keep the boarding department in efficient working order. The average expense per month this session has been $7.00.

All students are required, by a resolution of the Board of Trustees, to wear the prescribed uniform within five miles of the college buildings. The uniform, consisting of coat, pants, and cap, may cost next year about $14.50; but the cost varies from year to year, owing to the fact that the uniform is made by contract, let to the best bidder. The material is cadet gray. In addition to the regular uniform, a khaki uniform has been adopted for spring and fall wear. This not only saves the more expensive uniform, but is much more comfortable. The khaki uniform costs about $5.75. Two khaki and one cadet gray uniform should last a student two years.

It will be observed that students are permitted to select either the Agricultural Course, the Engineering Course, Pedagogical Course, or the Textile Course, at the beginning of the second term of the freshman year. Those who take the Agricultural Course will be required to work in either the farm, the garden, the Experiment Station, or on the campus, and are paid eight cents per hour for such labor faithfully performed. Those who take the Engineering Course or the Textile Course will be required to work in the shops, and since this is purely educational, no pay is allowed them for such work. Students in the freshman and preparatory years work on the farm, in the garden, and in the shops. They are paid eight cents per hour for faithful labor on the farm and in the garden, but are not paid for work in the shops.

To assist in meeting expenses, students taking the Agricultural Course can labor from two to three hours each day, three to five days in the week, limited by money appropriated for this purpose. This is compulsory to the extent that each student must perform a prescribed minimum amount of labor. With ordinary weather the student may be able to earn an average of about $25.00 a year. Some have earned as much as $60. They can also labor on Saturday, and very frequently work longer than three hours daily during the week. Those who do this earn much more and it goes far toward meeting their expenses. Money so earned is credited for board, and is not to be drawn even when the deposit is more than ten dollars, except in final settlement, Quite a number of students have by their labor brought their total expenses down to an average of $100 for the session. This includes board, fuel, washing, clothing, and average traveling expenses.

Each student must have at least $10 at the beginning of each board month to pay his board for the ensuing scholastic month. Those who fail to do this will be charged at the day rate (35 cents) instead of the month rate until deposits are made, the difference in the rate being from six to ten cents per day, depending upon the actual cost of board, fuel, lights, and water. Students must see for themselves that this deposit is made, and not depend upon their parents' being notified by the college authorities. All money deposited is allowed in settlement of accounts at the end of the session, or upon withdrawal, except money deposited for fees and rent of bedsteads, which is not refunded. There must be a settlement at the end of each month; students who cannot pay must leave the college. No honorable discharge will be given any student until he pays all dues.

All students are required to pay to the Secretary at the beginning of the first term, or when they enter—

Matriculation, Library and Lyceum fee.	$ 5.00
Hospital and Gymnasium fee	7.00
For Uniforms	20.25
Rent on iron bedsteads..................	.75
Advance on Board	10.00
	$43.00

In addition to the above, they must have from $15.00 to $20.00 to furnish their rooms and purchase books, making about $60.00 necessary for a new student. Only $43.00 should be deposited with the Secretary.

Students are requested to bring postoffice money order, express money order, or bankers' exchange, if they can do so, as occasionally some inconvenience to them, and to the Secretary also, is necessarily caused by delay in handling personal checks on local banks, which we must place with our bank subject to credit when collected. However, checks on home banks will not be refused.

By order of the Board of Trustees, students are not permitted to draw money deposited with the Secretary except in final settlement. Charges against such deposits will be made for fees, uniform, board, fuel, lights, water, laundry, which, after a student enters, cover all regular necessary expenses except stationery and a few small items of that kind. By noting this fact, parents can regulate expenses by supplying spending money direct better than they can by placing funds with the Secretary to be drawn by their sons as occasion may arise for the use of money. It is very gratifying for us to state that a large number of our best young men spend very little each month outside of the cost of board, fuel, lights, water, laundry, and parents need not fear that their boys will be embarrassed by reducing expenses to a minimum.

It is the desire of the Board of Trustees that parents and guardians co-operate with the college authorities in encouraging the practice of economy by students, and to this end it is suggested that students should not be supplied with much pocket money in excess of what is required for necessary expenses.

An itemized statement of the account of any student will be sent to his parent or guardian, provided the Secretary is requested by the parent or guardian to do so; otherwise statements will not be sent, owing to the great amount of work involved in making them.

AGRICULTURAL COLLEGE (not Starkville is our postoffice and our express office. Both postoffice and express money orders can be bought or collected at ''Agricultural College'', without the necessity of going to Starkville—over a mile away. Much delay is often caused by letters being addressed to ''Starkville'' instead of ''Agricultural College.''

Students who travel on the Mobile & Ohio or the Southern railroads may get an order enabling them to secure a ticket at two cents a mile, provided they make application to the Secretary of the College in time, and furnish in each case the following information: (1)

Name of applicant; (2) Point at which train will be taken on either of the above roads; (3) Name of railroad. No other road in the state grants reduced rates.

DISCIPLINE.

The President. by College Regulations, is responsible for the government and management of the college and supervises and controls all the departments, collegiate and otherwise.

The Commandant has immediate command of the battalion of students and is responsible for the military organization. On his recommendations the President appoints the officers and non-commissioned officers of the battalion. All permits for privileges, all excuses and explanations for delinquencies must be submitted through him. It is his duty to report to the President, for his action, all violation of college regulations. He assists the President and Faculty in their efforts to enforce discipline, and sees that the punishment given by them are served.

To enforce discipline and preserve orderly conduct, reports are made by the student officers and non-commissioned officers, and demerits and punishments are given by the President for those reports which are not removed on explanation submitted to the Commandant. Students have the right of appeal in writing, through the Commandant, to the President, when they think injustice has been done them.

The scale of demerits is from 1 to 5, according to the degree of the offense.

The grades of punishment are:

I. Reprimand, demerits, privation of recreation, and walking extras.

II. Arrest, confinement to room or college limits, and reduction to ranks, of officers and non-commissioned officers.

III. Suspension, dismission with privilege of resigning, and public dismission.

IV. Expulsion.

Only the President and Faculty can award punishment. Those of first and second grades are given by the President, and those of third and fourth grades by the Faculty.

The discipline has for its chief aim and object to secure with as little severity as possible, prompt and cheerful obedience to, and respectful, quiet demeanor towards the college authorities, orderly conduct in the section rooms, dormitory, mess-hall, chapel and in the fields and shops.

The military feature is a most effective means of enforcing and securing discipline. The company and battalion organization gives to the officers and non-commissioned officers acquaintance with the proper exercise of authority, and students acquire habits of obedience.

This feature is made to conduce to the furtherance of the principal aim and object of the college—its industrial feature.

In order to maintain discipline, do justice to all, clearly discriminate between the faithful and the unfaithful, and render a correct report of conduct, class-standing, etc., at the end of each half term, the attention of the patrons of the college is respectfully directed to the following regulations governing absence, and their co-operation is earnestly requested:

I. After regularly matriculating, no student, except on recommendation of the Surgeon, will be permitted to go home or elsewhere, except at such time as the Faculty may designate, unless the parent or guardian explicitly directs the President to grant the privilege.

II. All applications for leave to go home or elsewhere must be for a specified time.

III. Any student who is on leave of absence and cannot return at the expiration of the time granted, must notify the president, give reasons therefor, and ask for extension of leave, designating the date on which he hopes to return; otherwise his name may be dropped from the rolls and some one else taken to fill the vacancy.

IV. Students who are absent on account of sickness are requested to report before the end of each month their state of health and the probability of their returning that session.

V. Patrons are earnestly requested not to permit their sons to remain away from college at any time during the session, one moment longer than is absolutely necessary, as it is a very great detriment to the student himself, in a measure detrimental to his class, and very discouraging to the instructor to have the students lose the benefits of one lecture, or the explanations of a single recitation.

GRADING AND EXAMINATIONS.

The following regulations are taken from the Regulations of the Faculty (Revised Edition, May 21, 1906). They were adopted originally and put in force during the session of 1904-'05:

1. All legislation on the subject of grading is hereby repealed.
2. Grade from A to F, omitting E, are given for daily recitations and for examinations; and A shall indicate excellent work, or approximately grades from 90 to 100; and B, good work or approximately grades from 80 to 90; C, fair work, or approximately grades from 70 to 80; D, poor work, or approximately grades from 60 to 70; and F, failure, or grades below 60.

3. The grade for entrance into the Freshman Class shall not be less than D.

4. Any student making one or more half-term grades of F in a subject shall be debarred from the final examination on that subject, unless the instructor, with the approval of the head of the department, shall see fit to waive this requirement.

5. A student who has qualified for an examination in a subject and has made an examination grade of F in it shall be entitled to a second examination to be taken not later than the end of the first term immediately following the term in which the student failed; or in case the student does not re-enter college at the beginning of the next term, he shall be required to take this second examination not later than the end of the first half term after he does re-enter college. In case the student fails on this second examination, or neglects to take it during the time indicated, he shall be required to take the subject over in class or under an instructor approved by the President of the College, and the head of the department in which the subject lies. This special examination may be taken on any Saturday afternoon by agreement of professor and student. When the examinations are to be taken during the regular examination period, the time is to be divided between the different schools as follows:

Agricultural school first afternoon of the period.
Engineering school second afternoon of the period.
Textile school third afternoon of the period.
Pedagogical school fourth afternoon of the period.

6. A student who has qualified for an examination and for reason satisfactory to the instructor and the head of the department has failed to take it, shall be entitled to an examination to be taken under time conditions provided for in section 5, and such students shall be entitled to a second examination.

7. Any student who has not taken the final examination in a subject because of the provisions of Section 4, may, at the discretion of the instructor; with the consent of the head of the department, take this examination at the time and under conditions provided for in Section 5.

8. In all examinations for advanced standing in a subject, or for the passing off of a subject in which he has no half-term grades, the student shall be required to make a grade of D; and at the discretion of the instructor, with the consent of the

head of the department, students taking examinations under the conditions outlined in Sections 4, 5 and 6, may be required to make a grade of C.

9. All special final examinations shall be held at such times as are designated by the Committee on Examinations.

10. In case a student be absent from one or more recitations, he may, if the instructor see fit, be required to make up the work he missed.

11. In case a student be absent one-fourth or more of the time he may be required to stand a special examination for a grade. This examination, may be, at the discretion of the instructor, combined with his average daily grade for that half-term, and this average or the special examination, when the instructor sees fit to disregard the daily grades, shall constitute the grade for the half term.

12. In subjects requiring practical work, for which an examination would not be an adequate test and in which the making up of work would be impracticable, the passing or the not passing of a student shall be left to the discretion of the instructor and head of the department.

13. Partial examinations may be held on a subject, when in the judgment of the instructor it is advantageous to do so, and the average of these partial examinations shall constitute the final examinations on that subject.

14. On all reports for a students final standing the word "Passed," together with the letter A, B, C, or D, indicating the class of work done, or the word "Failed," where he has failed, shall be reported. No final examination grades shall be turned into the office, but merely the final standing.

15. Under the head of remarks on each report where a student has failed to receive a grade, the instructor shall indicate the reason why no grade has been given.

16. This system of grading shall go into effect at the beginning of the second term of the session 1904-1905.

17. It shall be the duty of each professor to make written report to the President at the end of each half term of students not doing satisfactory work in subjects taught in this department.

18. Each student taking a written lesson or standing an examination, in any department of the College, shall be required to

furnish a blank book, known as a "quiz book," for such written lesson or examination.

19. The question of the form and manufacture of this "quiz book," shall be taken up and investigated by a committee of three from the faculty to be appointed by the President, and the books shall be put on sale at the student book store and shall not cost more than three and one-third cents each.

CAMPUS AND BUILDINGS.

Campus.—The college campus extends over about fifty acres of land. It is situated on a series of gently sloping hills with perfect natural drainage, and is well shaded by a growth of native trees. It is nicely laid off by walks and drives and ornamented with shrubs and flowers. The view from the buildings on the campus covers a wide expanse of valleys and uplands which are dotted with evidences of a productive soil. In all, there are thirty-eight buildings on the campus valued at $252,171.00; of these, the main college buildings are valued at $214,867.00 and are used for purposes of instruction, for dormitories, society and Young Men's Christian Association halls, a dining hall for students, and an infirmary for the sick. The other buildings are used for residences for the President, professors, and officers of the college.

Water Works and Sewerage System.—By an appropriation from the legislature, these systems have been greatly improved by the erection of a fifty-thousand-gallon steel tank and tower, and by the putting in of six-inch mains around all the main buildings, which insures an abundant water supply at all times. In connection with the splendid water system there is a large Underwriters' fire pump, with a six-inch discharge which gives the pump a capacity of seven hundred and fifty gallons per minute. With steam on at all times, night and day, the pump can be put in motion in a moment by simply opening a valve. Our fire protection is unexcelled.

Electric Light Plant.—The electric plant is operated for the benefit of the students of the college and for power purposes for the various college departments. The system is a modern and complete one. The generating station in the college power house contains two direct connected direct current units of 75 Kilowatt and 40 Kilowatt capacity, respectively, which can be operated singly or together on any part of, or on the entire system, thus allowing the best economy of operation. The work incident to the distribution of power and to the maintenance of the plant is performed entirely by students.

Chemical Laboratory.—The building now used as a chemical laboratory occupies a very desirable position on the campus, being situated immediately east of the academic building. The annex, completed in 1898, is finished in red pressed brick, and is provided with a commodious basement which contains rooms for storing heavy chemicals, inflammable compounds, a furnace and boiler room, and a general storage room.

The first floor of the main building and of the annex as well is given up almost entirely to the work of the State Fertilizer Control. Here are situated the laboratories for analysis of fertilizers, soils, mineral waters, and for the general analytical work done by the college for citizens of the state. The office of the State Chemist and the laboratories set aside for students of general inorganic, organic, and analytical chemistry are to be found on the second floor. The entire building is amply provided with conveniences for chemical work, piped for water and gas, and supplied with current for lighting and for electrolytic work.

Stephen D. Lee Textile Building.—The home of the Textile School is situated at the east end of the campus on a hill overlooking the rest of the college buildings. Two hundred and twenty-four feet long, two stories high, with two towers and a facade, it presents a most imposing appearance.

The style of construction is known as the "slow-burning type." Floor and roof beams are 12x16 timbers, supported on 8-inch cylindrical columns. Double floors are used throughout. The picker room and engine room are separated from the rest of the building by fire walls, the openings in which are supplied with standard fire doors, so arranged as to close automatically in case of fire. Entrances from the main building to the towers are similarly equipped. There is a complete installation of automatic sprinklers, so that the possibility of a fire's gaining headway is reduced to a minimum. In addition to all this apparatus the building is directly connected with the fire pump at the central power station.

The entire second story is used for practical work in the manufacture of raw cotton into yarn. On the lower floor are the hand and power looms, the engine room, recitation rooms, chemical laboratory and lecture room and the director's office.

A brick wing one story high adjoins the main building on the back. In it are located a thoroughly equipped dye-house and a boiler room.

The building was erected at a cost of more than thirty thousand dollars, and has an equipment valued at more than seventy thousand dollars. A large amount of this admirable equipment was donated by machine builders.

Engineering Building.—This building has recently been completed, at a cost of $30,000.00, by an appropriation of the legislature, and is a splendid pressed brick structure, of modern style and construction in architectural engineering, finished with stone and covered with slate. The main part, extending east and west, is 60x122 feet, three stories; the north wing is 75x92 feet, one and a half stories; the east wing is 60x54 feet, one story; and the main south wing is 74x102 feet, two stories; while the smaller is 60x92 feet, one story; and the whole building shows 254 feet frontage by 176 feet in depth. The first floor of the main building is used by the department of mechanical engineering for a class room, laboratory, and machine shop. The first floor of the main south wing contains an office for the department of mechanical engineering, an office and the class room, laboratories, store rooms and dark room of the department of electrical engineering. The second floor of this wing contains the office and class rooms of the director of the school and the class room, store rooms, dark rooms and laboratories of the department of physics. The second floor is occupied by the department of civil engineering and drawing for class rooms and drawing rooms. The third floor is used at present for general storage purposes. The north wing is used for the forge shop and foundry. The east wing is used for the college power and light plants. The smaller south wing is used for the wood shop. The whole building is heated by steam and lighted throughout by electricity. The facilities, convenience and arrangement are unsurpassed.

W. B. Montgomery Agricultural Hall.—This building was erected in 1902, by a $40,000.00 appropriation of the state legislature, and was named in honor of Col. W. B. Montgomery, who was a local trustee of the college for twenty-five years. It is a handsome pressed brick structure, of modern style and architecture, finished with stone and terra cotta trimmings. It is 120 feet in length by 60 feet in width, three stories high, provided with an attic and a large basement almost entirely above ground. It has a semi-circular wing, in the rear, 60 feet in diameter and as high as the main building. The basement is used for the geological museum, the mineralogical laboratory, the exhibit room for agricultural implements, and the demonstrative lecture room for stock judging. The first or main floor is used by the departments of biology, geology, and horticulture for class rooms, laboratories, and offices. The second floor is occupied by the departments of agriculture and veterinary science for class room, laboratories and office; also on this floor is the large reading-room of the general library, which is admirably arranged and well lighted. The third or top floor is used for class rooms by the departments of agricultural engineering, industrial pedagogy, and foreign languages; also on this floor is the general library of the college which is immediately over the library reading room and opens down into it. The attic is used by the library for general storage purposes. The building is heated by steam and lighted by electricity throughout, and its facilities and usefulness are unexcelled.

The J. Z. George Infirmary.—This building, erected by a special appropriation from the legislature, cost for building and equipment something like $15,000.00. It has two large wards each containing 22 beds, and six private wards for use in case of serious illness. There is a kitchen and pantry and a dinning room on each floor. The bath rooms are furnished with hot and cold plunge and shower baths. The building is heated with steam and lighted with electricity.

An experienced trained nurse and an assistant are on duty at all times, the college surgeon is in constant attendance, and students who are sick receive the very best attention.

Dairy Building.—This building has just been completed, at a cost of $10,000.00, and is a handsome brick structure, of modern style and architecture, finished with stone and covered with slate. It is 70 feet long by 50 feet in width, two stories high with basement most of which is above ground. In the basement are located the receiving room, the butter-making room, the cheese-making room, and the cheese-curing rooms. The first floor contains an office, class room, laboratories and reading room. The second floor has not yet been completed, but will be used for class rooms, laboratories, and for work in dairy bacteriology.

Other Buildings.—Situated near the center of the campus are the Academic Building, the "Mess Hall," the Pedagogical building and the Young Men's Christian Association Building. The first, or main floor, of the Academic Building is used as the college chapel and assembly room; the second floor furnishes class rooms for the department of English; the third floor is used by the Preparatory department. The Young Men's Christian Association Building furnishes a home for the Association, and for the two literary societies.

HEALTH.

The college buildings are on a series of variously shaped hills, 422.4 feet above the sea level, gently sloping and drained in every direction, remote from marshes, and having the requities for promoting vigorous health. In addition there is a complete system of sewerage and a magnificent water supply furnished by two artesian wells of over a thousand feet in depth.

In addition to these advantages in situation, the facilities for caring for the sick are of such superior nature that the majority of those who visit sick students readily admit that, a mother's or sister's presence excepted, they are better provided for than they would be at home; for here there is a well equipped hospital, and a skilled physician and trained nurse are in attendence upon sick students day and night, if necessary.

RELIGIOUS EXERCISES.

The daily duties are opened with a prayer and song service in the chapel—faculty and students being required to be present. On Sunday morning students may attend any church in the town of Starkville.

Every Sunday morning religious services are held in the chapel, at which all students must be present. These services are conducted, in turn, by the pastors of the different churches in the town of Starkville and vicinity.

YOUNG MEN'S CHRISTIAN ASSOCIATION.

Apart from the general religious exercises, including the morning chapel service and the Sunday morning sermon, the Young Men's Christian Association is organized and conducted by the Christian students. The purpose of the Association is, to promote a healthful growth of social and moral life in the College, to develop Christian students through active work, and to lead other students to know and to love Jesus Christ. The public devotional exercises of the Association include a short prayer meeting each evening, except Saturday, during the week. On Sunday evening, service in chapel, includes the presentation of special themes related to the devotional and moral life of students. Members of the faculty and strong students usually present these topics.

The Young Men's Christian Association makes a special effort to provide, for all the students who care to do the work, a practical and devotional study of the Bible. During the session of 1907-08 this course of study has been directed by student leaders, assisted by normal classes led by Dr. Logan, Prof. Condray, and, during the fall term, by Prof. Leavell. A recent summary based on actual class attendance rather than on enrollment, shows an average of 110 students in about 22 classes for a period of fifteen weeks. In addition to the course of Bible study, the Association is making special plans to present a study of world problems, including special attention to the modern foreign missionary enterprise. For the coming year the management of this department, which has been very deficient, is entrusted to a committee of personally interested workers.

For the first time the Association has, this year, employed a general secretary to give his attention to the Association work.

An attractive college calendar and neat student handbook are issued by the Association. In the hand-book are presented the various phases of college activity, with necessary information for new students. This book will gladly be sent to prospective students on application to the secretary.

The officers and chairmen for the ensuing year are:

OFFICERS.

J. W. Sargent, '09	President.
A. A. Loftin, '09	Vice-President.
L. W. Stampley, '09	Treasurer.
J. W. Woodward, '09	Secretary.
E. M. Dodd	Musical Director.

CHAIRMEN OF COMMITTEES.

D. L. Horn, '09	Bible Study.
M. H. James, '10	Devotional.
M. J. Luster, '09	Missionary.
J. B. Shelton	Membership.

LITERARY SOCIETIES.

The literary societies, the Philotechnic and Dialectic, furnish a valuable supplement to the academic work of the college. They are supported entirely by the students, who take great interest in them, about two-thirds of the students being usually enrolled as members. Their meetings are held weekly on Saturday evening, and are always open to visitors. Their exercises, which consist of debates, declamations, and occasional essays, are well fitted to give students the practical acquaintance with parliamentary usage and tactics of debate, and the ease and readiness of public speaking, so useful in every walk of life.

Each society has made the beginning of a library for the use of its members, which will be added to from time to to time, as their means permit.

The College Reflector, published by the literary societies, is devoted to educational, literary, and industrial topics. It will endeavor to give an accurate account of the working of the college in its various departments. Though designed primarily to encourage English composition among the society members, space will be given for the publication of public lectures by members of the faculty and others, and the orations and essays of students of the college. Price seventy-five cents in advance, per scholastic year. Sample copies sent free to any address. All communications should be addressed to Business Manager, College Reflector, Agricultural College, Miss.

ALUMNI ASSOCIATION.

OFFICERS.

E. L. Robins, '92, Hattiesburg, Miss.	President·
I. H. Evans, '91, West Point, Miss.	1st Vice-President·
A. H. Ames, '92, Starkville, Miss.	2d Vice-President·
F. J. Weddell, '93, Agricultural College, Miss.	Secretary·
A. J. Moore, '92, Agricultural College, Miss.	Treasurer.

EXECUTIVE COMMITTEE.

J. C. Herbert, '87	Agricultural College, Miss.
W. W. Magruder, '87	Starkville, Miss.
I. D. Sessums, '99	Agricultural College, Miss.

The object of the Association is to arouse and to strengthen friendly feelings among the members of the different graduating classes, and to aid the college in its noble work of upbuilding the industrial interests of the State.

LIBRARY.

T. W. Davis, Librarian.

The Library is the common laboratory for all departments of college work. We maintain the open shelf system because we believe that contact with the books on the shelves arouses a desire to know something of what the books contain. There are about twelve thousand volumes in the Library all of which are accessible to students. We are especially interested in perfecting our reference section, for it is here that the most important work is done in College. In addition to the books, the Library subscribes to the leading periodicals of the day. Our bound volumes of magazines are indispensable as books of reference.

We receive more than a hundred periodicals gratis from the publishers for which we feel under many obligations. The county newspapers are eagerly read by the students and through them they keep in touch with the affairs in their respective counties.

SCHOOL OF AGRICULTURE.

FACULTY.

J. C. HARDY, A. M. LL. D	President of the College.
W. L. HUTCHINSON, M. S	Dearn of the School.
J. C. ROBERT, M. D., V. M. D	Professor of Veterinary Science.
G. W. HERRICK, B. S. A	Professor of Biology.
W. F. HAND, M. S., Ph. D	Professor of Chemistry.
E. R. LLOYD, M. S	Professor of Agriculture.
J. S. MOORE, M. S	Professor of Dairy Husbandry.
A. SMITH	Professor of Animal Husbandry.
W. R. PERKINS, M. S	Professor of Agronomy.
GEO. L. CLOTHIER, M. S., M. F.,	Assistant Professor of Horticulture.
D. C. MOORING, M. S	Assistant Professor of Horticulture.
J. P. KERR	Poultryman.
R. W. HARNED, B. S	Assistant Biologist.
J. R. RICKS, M. S.	Foreman of Farm.
D. H. THOMAS, B. S	Fellow in Dairying.
W. H. MAGRUDER, A. M	Professor of English.
B. M. WALKER, M. S., Ph. D	Professor of Mathematics.
J. C. HERBERT, M. S	Professor of History and Civics.
ALBERT BARNES, M. M. E	Professor of Mechanical Engineering.
C. E. ARD, B. S.,	Professor of Physics and Electrical Engineering.
D. C. HULL, M. Sc.,	Professor of Industrial Pedagogy.
CHARLES HANCOCK, B. S	Professor of Civil Engineering.
W. N. LOGAN, Ph. D.,	Professor of Geology and Mining Engineering.
I. D. SESSUMS, B. Sc.,	Acting Professor of Military Science and Tactics.
J. P. MONTGOMERY, A. M., Ph. D.,	Associate Professor of Chemistry.
F. J. WEDDELL, B. S	Associate Professor of English.
F. M. DARNALL, A. B.	Assistant Professor of English.
B. F. CONDRAY, Ph. M	Associate Professor of Mathematics.
C. R. STARK, B. S	Assistant Professor of Mathematics.
HARRY T. FORE, A. B., B. S	Instructor in English.
ALBERT L. LOVE, B. S	Instructor in English.
M. L. FREEMAN, B. S	Instructor in Drawing.
F. D. MELLEN, A. B	Instructor in English.
V. W. BRAGG	Instructor in Wood Shop.
F. C. BOLTON, B. S.,	Instructor in Physics and Electrical Engineering.

COURSE OF STUDY.

The School of Agriculture comprises the departments of (1) Agronomy, (2) Animal Husbandry, (3) Dairy Husbandry, (4) Poultry, (5) Veterinary Science, (6) Horticulture, (7) Chemistry, (8) Biology, and (9) The Agricultural Experiment Station.

The same course of study is offered all students who elect their work in the School of Agriculture except that during the junior and senior years certain Practicals are elective.

Graduate Work.—Graduates who wish to obtain a Master's degree, or to pursue their studies beyond graduation, are offered advanced courses in the School of Agriculture. For requirements and the lines of work see "Degrees" and the courses given in the several departments of the school.

Short Courses.—For those who cannot spare the time to take a full course, short courses are provided, so that the student may give his entire time to agricultural subjects.

Equipment.—The college owns and operates 2,000 acres of land, using a large part of it for pasture. In the dairy herd there are about one hundred cows and the following breeds are represented: Jerseys, Red Polls, Short-horns, and Holsteins. There are, also, grades of these breeds. In the beef herd there are about three hundred head of cattle consisting of Angus, Herefords, Short-horns, grades of these breeds and natives. Other live stock are hogs, stallions, mares, jennets, and a jack, and there is, also, a well equipped poultry plant.

There are good barns, sheds, etc., for handling the live stock and farm products.

The Agricultural building is one of the best at the college and besides section rooms and offices, has a large room in the basement for clinics and stock judging.

The biological and veterinary departments have laboratories well equipped with microscopes and other apparatus. The biological department also has a herbarium of flowering plants and grasses, a collection of economic fungi and a cabinet collection of common and injurious insects.

The dairy department is equipped with a two-story brick building with basement, furnished with modern apparatus for the manufacture of milk products.

The horticultural department has modern green houses and other propagating structures.

Admission.—Students elect the School they will enter at the beginning of the second term of their Freshman year. Freshmen study algebra, etymology, anatomy and physiology, English history and book-keeping the first term. For requirements to enter the Freshman class see "Conditions of Admission."

Expenses.—The necessary expenses need not exceed $125 per session, and students in the School of Agriculture, may perform certain work in the fields for which they receive eight cents an hour, thereby defraying a part of their expenses.

Young men desiring an education, but without means to attend college, may come and work on the farm until they can save enough to enter college and take a regular course.

SCHOOL OF ENGINEERING.

FACULTY.

J. C. HARDY, A. M., LL. D.............President of the College
B. M. WALKER, M. S., Ph. D., Director and Professor of Mathematics.
ALBERT BARNES, M. M. E., Professor of Mechanical Engineering.
C. E. ARD, B. S.............Professor of Physics and Electrical Engineering.
W. N. LOGAN, Ph. D., Professor of Geology and Mining Engineering.
CHARLES HANCOCK, B. S., Professor of Civil Engineering and Drawing.
B. F. CONDRAY, Ph. M.............Associate Professor of Mathematics.
C. R. STARK, B. S.............Assistant Professor of Mathematics.
R. C. CARPENTER, B. S., Superintendent of Power, and Instructor in Forge and Foundry.
T. M. SPINKS, B. S.............Instructor in Machine Shop.
M. L. FREEMAN, B. S.............Instructor in Drawing.
V. W. BRAGG.............Instructor in Wood Shop.
F. C. BOLTON, B. S.............Instructor in Physics.
H. CRITZ, B. S.............Instructor in Mathematics.
PETER V. SCHUPP, M. E. in E. E., Instructor in Electrical Engineering.
J. A. HERRINGTON, B. S.............Fellow in Mechanical Engineering.
O. B. WOOTEN.............Student Fellow in Electrical Engineering.
W. H. MAGRUDER, A. M.............Professor of English.
J. C. HERBERT, M. S............. Professor of History and Civics.
W. F. HAND, M. S., Ph. D.............Professor of Chemistry.
I. D. SESSUMS, B. Sc., Acting Professor of Military Science and Tactics.
JAMES V. BOWEN, Ph. B.............Professor of Foreign Languages.
F. J. WEDDELL, B. S.............Associate Professor of English.
J. P. MONTGOMERY, A. M., Ph. D., Associate Professor of Chemistry.
F. M. DARNALL, A. B.............Assistant Professor of English.
*R. H. LEAVELL, A. B.............Assistant Professor of History and Civics.
A. M. MAXWELL.............Instructor in Book-keeping.
†F. D. MELLEN, A. B.............Instructor in English.
HARRY F. FORE, A. B., B. S.............Instructor in English.
ALBERT L. LOVE, B. S.............Instructor in English.

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*Resigned.

†On leave of absence.

SCHOOL OF ENGINEERING.

The School of Engineering comprises the departments of Mathematics, Mechanical Engineering, Physics and Electrical Engineering, Civil Engineering and Drawing, Geology and Mining Engineering.

It offers in each of the great divisions of engineering —mechanical, electrical, civil, and mining—a thorough course of instruction in the scientific principles and an introduction in the practice of the profession. The work is mainly technical, requires preparation of a high order, and an exhaustive effort in the courses themselves. Each course requires four years for completion and leads to the degree of Bachelor of Science.

The work of the Freshman and Sophomore years is common to all students of this school, so that a choice between the different courses need not be made until the beginning of the Junior year. The general objects of the several courses are briefly as follows:

The course in Mechanical Engineering is designed to train the student in those technical and scientific subjects in which the engineer must be well grounded and to afford the student an opportunity to specialize in the direction of the Mechanical Engineering profession. Special stress is laid upon the preparation of the necessary working drawings, the manual training work in the wood shop, the work in the forge, foundry, and machine shops, a familiarity with the operations of power and electric light plants, the construction of power systems, and original research work in the mechanical laboratory.

The course in Electrical Engineering is designed to train the student in those fundamental principles of mechanics and electricity which form the basis on which the engineer must build, and to afford the student an opportunity for specialization in the Electrical Engineering profession.

These students take the regular practical courses and shop work with the Mechanical Engineers and have special stress laid on a familiarity with power and light plants, the operation of direct and alternating current incandescent, arc, and power systems; the principles of alternating currents and machinery, the installation of electric light systems, power use and transmission, and original research work in the electrical laboratory.

The course in Civil and Mining Engineering has for its object to impart as broad a scientific training as the length of the course and the essential studies will allow, and to afford the student an opportunity to specialize along some line in Civil and Mining Engineering. Strict emphasis is laid on work in surveying, geology, and field methods which is so valuable to young engineers; mechanics and its applications to the designs of roofs and bridges and other structures; railway engineering, railway location and construction, masonry construction and foundation, bridge designs, water supply, and sanitary engineering.

In each of these courses a great deal of time is required for the practical work in the field, shops, and laboratories; but every engineer knows and appreciates full well the benefit of this training and experience. It is our aim to train our students to be independent and efficient workers and to adopt the methods of professional engineers. All engineering students are advised to spend their vacations in factories, repair shops, power and electric light plants, and with engineering corps in the field, in order to obtain commercial experience, that they may better appreciate the relations of their technical training and actual work.

In addition to the technical training, all engineering students receive instruction in English, Chemistry, History, Civics, Political Economy, and Military Science and Tactics.

Special Courses.—Special courses are arranged in the School of Engineering to accommodate persons of mature years who desire to pursue some special line of engineering work without becoming candidates for a degree.

Graduate Courses.—Advanced courses, open to graduates only, are offered by the several departments in the School of Engineering.

EQUIPMENT.

The wood shop, forge shop, foundry, and machine shop are equipped with tools and machines of modern type; the laboratories in the departments of Mechanical Engineering, Electrical Engineering, and Geology and Mining Engineering, are being equipped with apparatus and machinery of modern pattern from the best makers; and the instruments in the department of Civil Engineering comprise transits, levels, compasses, rods, chains, tapes, plane tables, and other minor instruments.

ADMISSION.

The same rules apply in regard to admission to the School of Engineering as apply for admission to the College and are given elsewhere in the catalogue.

EXPENSES.

The expenses of students in the School of Engineering are the regular College expenses and are given under that heading in the catalogue.

ENGINEERING CLUB.

The students in the School of Engineering have organized a club which is known as the Mississippi Association of Student Engineers. The object of the Association is to promote interest in, and increase our knowledge of the science of engineering.

SCHOOL OF TEXTILE INDUSTRY.

FACULTY.

J. C. HARDY, A. M., LL. D............................President of the College.
WILLIAM R. MEADOWS, A. B., B. S., Director and Professor of Yarn Manufacture.
*L. CHARLES RAIFORD, A. M., Associate Professor of Textile Engineering, in charge of Textile Chemistry and Dyeing.
JOHN BREWER BAGLEY, A. B, Instructor in Designing and Weaving.
HERBERT J. SMITH, B. S......Acting Instructor in Chemistry.
W. H. MAGRUDER, A. M....................................Professor of English.
J. C. HERBERT, M. S............................Professor of History and Civics.
ALBERT BARNES, M. M. E........Professor of Mechanical Engineering.
C. E. ARD, B. S..............................Professor of Electrical Engineering.
Wm. N. LOGAN, Ph. D..Professor of Geology.
L. W. CRIGLER, M. D., Professor of Anatomy and Physiology.
I. D. SESSUMS, B. Sc., Acting Professor of Military Science and Tactics.
F. J. WEDDELL, B. S............................Associate Professor of English.
B. F. CONDRAY, Ph. M................Associate Professor of Mathematics.
J. P. MONTGOMERY, A. M., Ph. D., Associate Professor of Chemistry.
C. R. STARK, B. S..........................Assistant Professor of Mathematics.
R. H. LEAVELL, A. B., Assistant Professor of History and Civics.
F. M. DARNALL, A. B..................Assistant Professor of English.
R. C. CARPENTER, B. S..................Instructor in Forge and Foundry.
A. M. MAXWELL..................................Instructor in Book-keeping.
T. M. SPINKS, B. S..................................Instructor in Machine Shop.
M. L. FREEMAN, B. S..Instructor in Drawing.
*F. D. MELLEN, A. B...Instructor in English.
V. W. BRAGG................................Instructor in Wood Shop Practice.
F. C. BOLTON, B. S...Instructor in Physics.
H. CRITZ, B. S..Instructor in Mathematics.
H. F. FORE, A. B., B. S..Instructor in English.
ALBERT L. LOVE, B. S....................................Instructor in English.

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*On leave of absence.

The School in Textile Industry is one of the three schools composing the college proper. Its function is to supply strictly technical training in the theory and practice of cotton manufacturing in all its branches.

At the beginning of the second term of the Freshman year students in regular standing in the college may elect to pursue studies in the School of Textile Industry. At the end of the fourth or Senior year, after having completed the assigned studies, and having passed satisfactory examinations therein, students receive the degree of Bachelor of Science. Upon completing the course the student will have received two years' instruction in such academic and mechanical subjects as are considered to be a necessary foundation for technical work, and two years of theoretical and practical work in subjects relating directly to the cotton manufacturing industry. The existence of academic departments in the college gives the student the opportunity to pursue studies in English, Mathematics, History and Physics, so essential to persons in every walk in life; and the admirably complete equipment of the Textile School enables him to become in some degree familiar with every machine used in a cotton mill.

The School embraces the departments of Yarn Manufacture, Textile Chemistry and Dyeing, Hand and Power Weaving, Designing and Fabric Analysis.

Yarn Manufacture.—Under the head of yarn manufacture is included a theoretical and practical study of all the processes and machines used in the manufacture of cotton yarn and in its preparation for the weave shop or yarn market; picking, carding, combing, drawing, roving, spinning, spooling, twisting, warping, slashing and putting yarn in convenient form for handling.

The courses of instruction in the department are so arranged that the student first acquires a familiarity with the operation of the machines as a mill worker would do. After he has learned to run the machines, he begins to study the theory of their construction and manipulation, this at first in a general way, and later with careful attention to detail. The yarn used in other departments of the school is all spun by the students.

Textile Chemistry and Dyeing.—The courses offered by the department of textile chemistry and dyeing have been so arranged that a student may follow a direct line of work from the elementary chemistry usually taught in preparatory schools to the problems of color chemistry dealt with here.

The work in textile chemistry and dyeing begins with the first term Sophomore and continues through the Junior and Senior years. The work includes general inorganic chemistry, the usual methods of analytical chemistry as applied in the qualitative analysis of various bases, acids and salts, and the quantitative determination of the active constituents of some of the more important mordants and assistants used in the textile industry; the leading facts and principles of organic chemistry, as exemplified in the preparation and testing of fatty compounds; a special study of the synthetic coloring matters as set forth in the production of certain aromatic compounds representing the substantive, acid, basic and mordant dyes; the application of these dyes to textile material. As a whole, the course is sufficiently broad to be a commentary on whatever preliminary training in chemistry the sudent may have had, and to serve as an introduction to work on a commercial scale.

The work is accomplished by lectures followed by laboratory exercises, in which an attempt is made to direct the work without, at the same time, actually telling the student all there is to be learned from it. Care is taken to develop accuracy in observations, neatness, and clearness in written descriptions of the same. In all laboratory work the student is required to make some suitable written record of the operations performed. In the more elementary portions of the work offered in the course, such a record may be completed immediately after the work has been finished, while in those cases where the final results of the experiment must be ascertained in part by subsequent calculations, reports are not to be submitted until the student has had time to consult references on the subject. In preparation work, when samples showing the results or the importance of the operation described are obtainable, these must be submitted with the report. No work will be regarded as satisfactory until samples and reports have been examined and accepted by the instructor. A stated amount of laboratory work is prescribed, and this must be completed by each student who finishes the course.

Hand and Power Weaving.—The courses in weaving are required of regular students and are arranged to cover the entire course.

Students are taught the fundamental principles of weaving on hand looms upon which the produce simple designs. They are then taught to operate power looms, the various types of looms following each other in a sequence which bears a direct relation to their complicated nature. In the Junior and Senior years original work predominates.

Designing and Fabric Analysis.—The courses in designing and fabric analysis are continuous, commencing with a study of the plain weave and ending with the complicated designs woven on Jacquard looms. Fabrics are analyzed and the manner of representing them on paper and of producing them in the loom is taught.

Special Courses.—In addition to the course scheduled on page 61 and adapted to those students who are candidates for a degree, there are offered three special courses, one in cotton-manufacturing exclusive of chemistry and dyeing another in chemistry and dyeing, and the third, which is a combination of the first and second, is arranged according to individual requirements.

The arrangement of special courses is to provide for students such as college graduates who decide to enter the cotton mill business, and the profession of chemist; and to give men working in mills an opportunity to secure the sort of technical theoretical instruction which it is difficult to obtain in the mill itself.

The requirements in the first two special courses are given below. Each course covers two years.

SPECIAL COTTON MANUFACTURING COURSE.

FIRST YEAR.

FIRST TERM.	SECOND TERM.	THIRD TERM.
Yarn Manufacture 6	Yarn Manufacture 6	Yarn Manufacture 6
Weaving 3	Weaving 3	Weaving 3
Designing 4	Designing 4	Designing 4
Designing 8	Designing 8	Designing 8
Yarn Manufacture 7	Yarn Manufacture 7	Yarn Manufacture 7
Drawing	Weaving 9	Weaving 9
	Drawing	Drawing
		Designing 9

SECOND YEAR.

Yarn Manufacture 8	Yarn Manufacture 8	Yarn Manufacture 8
Yarn Manufacture 5	Yarn Manufacture 5	Yarn Manufacture 5
Weaving 7	Weaving 7	Weaving 7
Weaving 10	Weaving 10	Weaving 10
Designing 5	Designing 5	Designing 5
Designing 7	Designing 7	Designing 7
Mechanical Engineering	Mechan. Engineering	Mechan. Engineering
Designing 10	Designing 10	Yarn Manufacture 10

SPECIAL COURSE IN TEXTILE CHEMISTRY AND DYEING.*

FIRST YEAR.

FIRST TERM.	SECOND TERM.	THIRD TERM.
Chemistry 2	Chemistry 3	Chemistry 4
Chemistry 6 or 8	Chemistry 6 or 8	Chemistry 6 or 5
Chemistry 7	Chemistry 7	Chemistry 7

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*This course pre-supposes a knowledge of elementary chemistry, such as is indicated under Textile Chemistry 1 (see Courses of Instruction).

SECOND YEAR.

FIRST TERM.	SECOND TERM.	THIRD TERM.
Dyeing 1	Dyeing 1	Dyeing 1
Chemistry 9	Chemistry 9	Chemistry 9
Dyeing 2	Dyeing 2	Dyeing 2

NOTE—All apparatus required in the work included in the courses described above is furnished by the school. Each student is supplied, at the beginning of a term, with a set of apparatus suitable for the work he is expected to do. Such as is in good condition at the end of the term may be returned to the storeroom and credit received therefor. Breakage in all courses in chemistry and dyeing will be charged at actual cost.

EQUIPMENT.

All strictly textile work is carried on in a building erected especially for the purpose and described under the head of Buildings and Grounds. It has been the object of the erectors to make the building resemble in every respect possible the best modern practice in cotton mill construction, and to make its equipment complete in every particular. The attempt has been successful so that nearly everything of importance needed in a cotton mill is already in place.

Two sources of motive power, steam and electricity, are provided, and either may be used. The thoroughly equipped steam installation is driven by a one hundred and twenty-five horse power Corliss engine, connected to shafting by the Dodge rope drive. Steam is generated in a boiler located in a boiler house just completed.

Normally the motive power in use is electricity supplied from the college power house. The various machines in the school are arranged in groups driven by nineteen separate motors. Each motor is supplied with a switch, starting box, and automatic circuit-breaker; spinning and roving frame motors are additionally provided with field rheostats to facilitate accurate speed regulation. The motors are suspended from the ceiling in typical cotton mill style, and the shafting, pulleys, etc., are installed in accordance with the best cotton mill practice.

The carding and spinning equipment is admirable, comprising machines for every process from picking to slashing. All the American manufacturers of cotton machinery are represented, so that the student becomes familiar with the indvidual characteristics of the various makes of machinery. The equipment is more complete than that of any other cotton textile school in the country.

In weaving there is a similarly good equipment, making it possible to weave cotton fabrics of practically every kind. The looms are all of the approved makes.

The work in textile chemistry and dyeing is carried on in an experimental laboratory for chemistry, an experimental laboratory for dyeing and a practical dyehouse. Adjacent are the classroom, the balance room and the instructor's office and laboratory.

The subject of dyeing is taught in an annex to the main building, having a floor space of 2,000 square feet. A portion of this is taken up with the work tables and apparatus necessary for experimental tests, while the remainder is occupied with machines and appliances used for dyeing larger quantities of material than those dealt with in an experimental way. Here the student will be taught to apply on a practical scale the knowledge gained by working with small quantities of cotton in experimental tests, and to compare results in those cases where all factors can be controlled easily with those in which the greater amount of material and the different sources of heat, etc., make necessary certain modifications of the formula worked out on an experimental basis.

An enumeration in detail of the entire equipment is too long for this catalogue. Machine makers and dyestuff firms have been most generous in their donations to the school, and we wish here to make acknowledgement of their generosity. These matters are referred to more at length in a special textile circular.

DEPARTMENT OF INDUSTRIAL PEDAGOGY.

FACULTY.

D. C. HULL, M. S.............Professor of Industrial Pedagogy.
W. H. MAGRUDER, M. A.............Professor of English.
———————— ....Professor of Horticulture.
J. C. HERBERT, M. S.............Professor of History and Civics.
J. C. ROBERT, B. S., M. D., V. M. D., Professor of Veterinary Science.
G. W. HERRICK, B. S. A.............Professor of Biology.
W. F. HAND, M. S., Ph. D.............Professor of Chemistry.
E. R. LLOYD, M. S.............Professor of Agriculture.
W. N. LOGAN, M. A., Ph. D., Professor of Geology and Mining Engineering.
W. R. PERKINS, M. S.............Professor of Agronomy.
ARCHIBALD SMITH.............Professor of Animal Husbandry.
J.V. BOWEN, Ph. B.............Professor of Foreign Languages.
————————.............Professor of Anatomy and Physiology.
I. D. SESSUMS, B. Sc., Acting Professor of Military Science and Tactics.
F. J. WEDDELL, B. S.............Associate Professor of English.
B. F. CONDRAY, Ph. M.............Associate Professor of Mathematics.
C. R. STARK, B. S.............Assistant Professor of Mathematics.
F. M. DARNALL, A. B.............Assistant Professor of English.
G. L. CLOTHIER, M. S., M. F., Assistant Professor of Horticulture.
D. C. MOORING, M. S.............Assistant Professor of Horticulture.
R. C. CARPENTER, B. S., Instructor in Forge and Foundry Practice.
A. M. MAXWELL.............Instructor in Book-keeping.
M. L. FREEMAN, B. S. T. E.............Instructor in Drawing.
F. D. MELLEN, A. B.............Instructor in English.
V. W. BRAGG, Instructor in Manual Training and Woodshop Practice.
F. C. BOLTON, B. S.............Instructor in Physics.
HUGH CRITZ, B. S.............Instructor in Mathematics.
W. W. ROUTTEN ....Instructor in Manual Training.

This department comprises a four years' course adapted to the needs of the average boy who comes to the college with only so much of previous training as will enable him to enter the regular freshman class. Teachers who take advantage of the instruction here offered may enter at any time with such advanced standing as their previous preparation, shown by examination or certificate from a reputable school, may warrant.

Instruction and training provided for in this course are designed to furnish (a) a liberal culture in language, history, science, and mathematics, (b) a thorough acquaintance with the theory and practice of manual training and the elements of agriculture, and (c) the broadest possible professional knowledge within the limits set.

Students in Industrial Pedagogy receive instruction in the languages, mathematics, history, and science in the regular college departments of English, Foreign Languages, Mathematics, History and Civics, Chemistry, Physics and Electrical Engineering, Biology, and Geology and Mining Engineering. The principles of agriculture are taught by the departments of Agriculture and Horticulture, while the pedagogy of the subject is emphasized by the professor of Industrial Pedagogy.

Mr. V. W. Bragg, Department of Mechanical Engineering, has charge of the work in manual training. This is a line of work designed for the public schools in which the principles of sloyd are exemplified in the construction of a series of models, combining the elements of beauty and utility, and so graduated that each presents a particular problem in the use of tools and in the adaptation of means to ends; the work is approached, not from the standpoint of the artisan seeking a trade, but from that of the liberal educator who sees in it a means of developing the perceptive faculties and the power of doing things —a means, in fact, of co-ordinating thought and action.

It is approached, therefore, with the full recognition of its broad ethical and educational value.

The emphasis laid upon this line of work, and equally upon that in elementary agriculture, is justified by the growing demand for agriculture and manual training as parts of the public school curriculum. The teacher of the future, who, in addition to thorough training in the branches ordinarily taught in the public schools, has attained proficiency in these lines of school work, will find himself in possession of a most potent means of enriching his curriculum, arousing interest in pupils and patrons, and increasing his own efficiency and usefulness.

Instruction in the history and science of education is provided in a series of courses given by the professor of Industrial Pedagogy, and is intended to produce that familiarity with past and present educational thought and experience which is an essential characteristic of the broad guaged, thoroughly equipped, progressive school man, able to comprehend and direct the influences that make themselves felt at every turn in his work.

THE SUMMER SCHOOL.

The Annual Summer School was inaugurated by the trustees in 1905. It has, seemingly, been very successful, and promises to fill a real place in the educational system of the state.

Its fourth session will begin June 15, and will continue four weeks. Courses will be offered in all the public school branches, elementary algebra and geometry, elementary botany, physics, chemistry, agriculture, nature study, forestry, book-keeping, manual training, drawing, pedagogy and psychology, primary methods, domestic science, and music.

The entire college plant is at the service of the Summer School.

DEGREES.

The degree of Bachelor of Science (B. Sc.) is conferred upon students who spend at least one year in resident study and complete any one of the full courses by passing all the required examinations.

The degree of Master of Science (M. Sc.) is conferred on any student who has taken the bachelor's degree in this college, or in any other college with equivalent courses, and who pursues and completes the graduate course herein prescribed.

For the Master of Science degree, the course of study pursued by the candidate must not be less than one year of resident work. The candidate will be required to select a Major Subject and a Minor Subject; the Minor Subject must be acceptable to the department in which the Major Subject is taken, and is to occupy from one-fourth to one-third of the total time given to the course. The candidates will also be required to prepare papers on five subjects to be assigned in the department having the Major Subject. The facts of these papers must be acceptable to the latter department and the English, to the department of English. The candidate must pass such examinations, oral or written, or both as the heads of the departments in which he is taking his work may require and shall submit a graduation thesis on a subject of investigation or study in his Major Course. The subject and the thesis matter must be acceptable to the department having the Major Course and to the department of English. The candidate must also have a reading knowledge of French, Spanish, German, or Latin.

While these graduate courses are open to the graduates of other colleges, such students will be required to pay the usual matriculation fee; and in case chemistry or biology is selected, the student will be charged for the materials used.

The only honorary degree conferred is that of Master of Progressive Agriculture (M. P. A.), bestowed upon those who have attained eminent success in some branch of agriculture.

Note. In the following pages are given the requirements for graduation in the various courses. In these "degree requirements," the abbreviations 1T, 2T, 3T, mean first term, second term, third term. The first number of each pair in each of these columns means the number of hours of theoretical or recitation work required each week, and the second number indicates the number of hours of practical or laboratory work required each week. The numbers following the name of each course refer to the course numbers in the detailed statement of "Departments of Instruction," which are arranged alphabetically in this catalogue immediately following these tables.

REQUIREMENTS

For the Degree of Bachelor of Science in Agriculture.

FRESHMAN CLASS.

SUBJECT. (See note page 56)	HRS. PER WEEK. 1st T.	 2d T.	 3d T.
Agronomy 1, 2		5–2	
Anatomy and Physiology 1	3–0		
Dairying 1, 7			3–4
Drawing 9	0–2		
English 1	6–0	6–0	6–0
History and Civics 1	3–0		3–0
Horticulture 1		5–2	
Mathematics 1, 2	10–0	5–0	5–0
Mechanical Engineering 1, 3	0–2	0–2	0–2
Military Science 3	0–2	0–2	0–2
Poultry		0–2	0–2
Veterinary Science 7, 2		0–2	3–2

JUNIOR CLASS.

SUBJECT.	1st T.	2d T.	3d T.
Agronomy 4, 5		3–3	3–3
Animal Husbandry 3		5–2	
Biology 3, 4	6–0	6–0	6–0
Chemistry 2			5–4
English 4, 5,		4–0	4–0
Geology 1	3–0		
History and Civics 6, 10	5–0	5–0	
Horticulture 5, 6	5–2		
Mathematics 8	5–0		
Military Science 2, 3	0–2	0–2	5–2
Veterinary Science 6		5–2	
Practicals (elective)		0–4	0–2

SOPHOMORE CLASS.

SUBJECT.	HRS. PER WEEK. 1st T.	 2d T.	 3d T.
Animal Husbandry 1, 2			5–2
Biology 1			6–0
Chemistry 1		5–4	5–6
Dairying 2	0–4	3–2	
English, 2, 3	5–0	5–0	5–0
History and Civics 2			3–0
Horticulture 2, 3	5–2		
Mathematics 2, 3	5–0	5–0	
Military Science 3	0–2	0–2	0–2
Mechanical Engineering 22, 24		0–4	
Physics 2	5–2		
Veterinary Science 7, 4	0–2	3–0	

SENIOR CLASS.

SUBJECT.	1st T.	2d T.	3d T.
Agronomy 6			5–0
Animal Husbandry 4, 5			5–2
Biology 5, 6	6–0	6–0	
Chemistry 3, 4	5–6	5–6	
Civil Engineering 1	5–3		
Dairying 3			3–0
English 7	0–2	0–2	0–2
Geology 2, 6		5–3	
History and Civics 5		5–0	
Horticulture			2–0
Mathematics 12, 14	5–0		5–0
Military Science 3	0–2	0–2	0–2
Practicals (elective)			0–6

REQUIREMENTS

For the Degree of Bachelor of Science in Civil and Mining Engineering.

FRESHMAN CLASS.

SUBJECT.	HRS. PER WEEK.		
(See note page56)	1st T.	2d T.	3d T.
Mathematics 1	5–0	5–0	5–0
Anatomy and Physiology 1	3–0		
Mathematics 2	5–0		
Drawing 9, 10, 16	0–2	0–7	0–7
Military Science 3	0–2	0–2	0–2
English 1	6–0	6–0	6–0
History and Civics 1	3–0		
Mathematics 4			5–0
Geology and Mining Eng. 1		5–0	
Mechanical Engineering 1, 2	0–2	0–8	0–8

JUNIOR CLASS.

Civil Engineering 1, 2, 3	5–6	5–6	5–6
Military Science 3	0–2	0–2	0–2
English 4, 5	5–0	5–0	
Geology 3	5–2	5–2	
Mathematics 7, 9, 10	5–0	5–0	5–0
Mechanical Engineering 12	0–4	0–4	0–4
Military Science 2,3	0–2	0–2	5–2
History and Civics 10			5–0

SOPHOMORE CLASS.

SUBJECT.	HRS. PER WEEK.		
	1st T.	2d T.	3d T.
Chemistry 1	5–4	5–4	
Drawing 13	0–4	0–4	0–4
Military Science 3	0–2	0–2	0–2
English 2, 3	5–0	5–0	5–0
Mechanical Engineering 7, 10	0–4	0–4	0–4
History and Civics 2			5–0
Mathematics 4, 6	5–0	5–0	5–0
Physics 1	5–4	5–4	5–4

SENIOR CLASS.

Civil Engineering 4, 5, 6,	5–6	5–6	5–6
Military Science 3	0–2	0–2	0–2
English 7	0–2	0–2	0–2
Geology 4, 5	5–2	5–2	5–2
History and Civics 5, 6		5–0	5–0
Mathematics 11, 13, 14		5–0	5–0
Mechanical Engineering 19	5–0		
Mineralogy 7, 8	1–4	1–4	1–4

REQUIREMENTS

For the Degree of Bachelor of Science in Electrical Engineering.

FRESHMAN CLASS.

SUBJECT. (See note page 56)	HRS. PER WEEK. 1st T.	2d T.	3d T.
Mathematics 1	5–0	5–0	5–0
Anatomy and Physiology 1	3–0		
Mathematics 2	5–0		
Drawing 9, 10, 16	0–2	0–7	0–7
Military Science 3	0–2	0–2	0–2
English 1	6–0	6–0	6–0
History and Civics 1	3–0		
Mathematics 4			5–0
Geology and Mining 1		5–0	
Mechanical Engineering 1, 2	0–2	0–8	0–8

JUNIOR CLASS.

SUBJECT.	1st T.	2d T.	3d T.
Drawing 14	0–3	0–3	0–3
Military Science 3	0–2	0–2	0–2
English 4, 5,	5–0	5–0	
Electrical Engineering 1, 2, 3	5–3	5–3	5–6
Mathematics 7, 9, 10	5–0	5–0	5–0
Mechanical Engineering 15, 18	5–3	5–3	
Mechanical Engineering 12	0–4	0–4	0–4
Military Science 2, 3	0–2	0–2	5–2
History and Civics 10		5–0	

SOPHOMORE CLASS.

SUBJECT.	HRS. PER WEEK. 1st T.	2d T.	3d T.
Chemistry 1	5–4	5–4	
Drawing 13	0–4	0–4	0–4
Military Science 3	0–2	0–2	0–2
English 2, 3	5–0	5–0	5–0
Mechanical Engineering 7, 10	0–4	0–4	0–4
History and Civics 2			5–0
Mathematics 4, 6	5–0	5–0	5–0
Physics 1	5–4	5–4	5–4

SENIOR CLASS.

SUBJECT.	1st T.	2d T.	3d T.
Civil Engineering 1	5–3		
Drawing 17	0–3	0–3	0–3
Military Science 3	0–2	0–2	0–2
Electrical Engineering 5, 6, 7	5–6	5–6	5–6
English 7	0–2	0–2	0–2
History and Civics 5, 6		5–0	5–0
Mathematics 11, 13, 14		5–0	5–0
Mechanical Engineering 19, 21	5–3	0–3	3–0
Mechanical Engineering 13	0–3	0–4	0–4

REQUIREMENTS

For the Degree of Bachelor of Science in Mechanical Engineering.

FRESHMAN CLASS.

SUBJECT. (See note page 56)	HRS. PER WEEK. 1st T.	2d T.	3d T
Mathematics 1	5–0	5–0	5–0
Anatomy and Physiology 1	3–0		
Mathematics 2	5–0		
Drawing 9, 10, 16	0–2	0–7	0–7
Military Science 3	0–2	0–2	0–2
English 1	6–0	6–0	6–0
History and Civics 1	3–0		
Mathematics 4			5–0
Geology and Mining 1		5–0	
Mechanical Engineering 1, 2	0–2	0–8	0–8

JUNIOR CLASS.

SUBJECT.	1st T.	2d T.	3d T
Drawing 14	0–3	0–3	0–3
Military Science 3	0–2	0–2	0–2
Electrical Engineering 4	5–3	5–3	
English 4, 5	5–0	5–0	
Mathematics 7, 9, 10	5–0	5–0	5–0
Mechanical Engineering 12	0–4	0–4	0–8
Mechanical Eng. 15, 16, 17	5–3	5–3	5–3
Military Science 2, 3	0–2	0–2	5–2
History and Civics 10			5–0

SOPHOMORE CLASS.

SUBJECT.	HRS. PER WEEK. 1st T.	2d T.	3d T.
Chemistry 1	5–4	5–4	
Drawing 13	0–4	0–4	0–4
Military Science 3	0–2	0–2	0–2
English 2, 3	5–0	5–0	5–0
Mechanical Engineering 7, 10	0–4	0–4	0–4
History and Civics 2			5–0
Mathematics 4, 6	5–0	5–0	5–0
Physics 1	5–4	5–4	5–4

SENIOR CLASS.

SUBJECT.	1st T.	2d T.	3d T.
Civil Engineering 1	5–3		
Drawing 17	0–3	0–3	0–3
English 7	0–2	0–2	0–2
Geology 2	5–3		
History and Civics 5, 6		5–0	5–0
Mathematics 11, 13, 14		5–0	5–0
Mechanical Eng. 19, 20, 21	5–3	5–6	5–6
Mechanical Eng. 13	0–6	0–9	0–9
Military Science 3	0–2	0–2	0–2

REQUIREMENTS

For the Degree of Bachelor of Science in Textile Industry.

FRESHMAN CLASS.

SUBJECT. (See note page 56)	HRS. PER WEEK. 1st T.	2d T.	3d T.
Anatomy and Physiology 1	5–0		
Drawing 9, 10, 16	0–2	0–8	0–8
English 1	6–0	6–0	6–0
History and Civics 1	3–0		
Mathematics 1, 2, 4	10–0	5–0	10–0
Mechanical Engineering 1, 2	0–2	0–8	0–8
Physiography 1		5–0	
Military Science 3, 8	0–2	0–2	0–2

JUNIOR CLASS.

Designing 2, 6	4–0	4–0	4–0
Electrical Engineering	5–0	5–0	
English 4, 5	5–0	5–0	
Mechanical Engineering			5–0
Textile Chemistry 2, 3, 5	2–5	2–5	2–5
Weaving 4	2–3	2–3	2–3
Yarn Manufacture 1, 2, 4	4–4	4–4	4–4
Military Science 1, 2	0–2	0–2	5–2
History and Civics 10			5–0

SOPHOMORE CLASS.

SUBJECT.	HRS. PER WEEK. 1st T.	2d T.	3d T.
Chemistry 1, 2	5–4	5–4	2–5
Designing 1	2–0	2–0	2–0
English 2, 3	5–0	5–0	5–0
Mathematics 3, 5, 7	5–0	5–0	5–0
Mechanical Engineering 9, 11	0–2	0–2	0–4
Physics 1	5–4	5–4	5–4
Weaving 1	0–2	0–2	0–2
Military Science 3	0–2	0–2	0–2

SENIOR CLASS.

Designing 3, 7, 9	4–2	4–2	4–2
Dyeing 1	2–6	2–6	2–6
English 7	0–2	0–2	0–2
Weaving 6	2–6	2–6	2–6
Yarn Manufacture 3, 5, 10	4–6	4–6	4–6
Miltary Science 3	0–2	0–2	0–2

REQUIREMENTS

For the Degree of Bachelor of Science in Industrial Pedagogy.

FRESHMAN CLASS.

SUBJECT. (See note page 56)	HRS. PER WEEK. 1st T.	2d T.	3d. T
Agronomy 1, 2			5–2
Anatomy and Physiology 1	3–0		
Drawing 9, 11	0–2	0–4	
English 1	6–0	6–0	6–0
Geology and Mining 1			5–0
History and Civics 1, 3	3–0	5–0	
Horticulture 1		5–2	
Mathematics 1, 2	10–0	5–0	5–0
Mechanical Engineering 1, 6	0–2		0–6
Military Science 3	0–2	0–2	0–2

JUNIOR CLASS.

Chemistry 1	5–4	5–4	
English 4, 5		5–0	5–0
Foreign Language 4, 8, 11	6–0	6–0	6–0
History and Civics 10	5–0		
Mechanical Engineering 6	0–4	0–4	0–4
Military Science 1, 2	0–2	0–2	5–2
Industrial Pedagogy 1, 3, 4	5–0	5–0	5–0

SOPHOMORE CLASS.

SUBJECT.	HRS. PER WEEK. 1st T.	2d T.	3d T.
Biology 1			6–0
English 2, 3	5–0	5–0	5–0
Foreign Language 3 or 10	5–0	5–0	5–0
History and Civics 2		5–0	
Horticulture 4		0–2	0–2
Mathematics 4, 6	5–0	5–0	5–0
Mechanical Engineering 6	0–4	0–4	0–4
Military Science 3	0–2	0–2	0–2
Industrial Pedagogy 8	0–2	0–2	
Physics 3	5–2	2–2	

SENIOR CLASS.

Biology	6–0		
English 7	0–2	0–2	0–2
Foreign Language 9, 12, 13	6–0	6–0	6–0
Geology and Mining 2			5–2
History and Civics 4, 5, 6	5–0	5–0	5–0
Mathematics 8		5–0	
Military Science 3	0–2	0–2	0–2
Industrial Pedagogy 5, 6, 7, 9	9–0	9–0	5–0

DEPARTMENTS OF INSTRUCTION.

AGRICULTURAL EXTENSION WORK.

Professor LLOYD.

History.—For the past twenty-five years farmers' meetings have been held under the auspices of the college and experiment station; but it was not until within the last ten years that the institute work was systematized and conducted with a specific purpose in view.

This method of carrying agricultural information to the farmers has grown in popularity and usefulness until now it would seem advisable to organize a distinct department of the college for carrying on this work in the future. Up to the present, seventy-five per cent. of the speakers have been furnished by the college and experiment station. During the past five years the growing interest, the increased number of meetings called for annually, and the great good that has been accomplished, make it necessary to rely more upon outside assistance to avoid the possibility of lessening the efficiency of the college and station work. Since last July there have been over one hundred and fifty institutes held with a total attendance of about thirty thousand.

Aims and Objects.—The purpose of this department is to hold at least one meeting in each county annually. These meetings are to be devoted to the dissemination among the farmers of information which shall aid in teaching better methods of farming, stock raising, horticulture and all the branches of business connected with agriculture, and thus make the cultivation of the soil more profitable and rural life more attractive.

Publications.—There is at present issued annually one farmers' institute bulletin, containing articles on various agricultural subjects. This phase of the work will be strengthened in the future by publishing short timely circulars containing information on subjects of vital interest to the farmer and by getting the information to him at the time he needs it most.

SHORT WINTER COURSE IN AGRICULTURE.

Objects of Course.—This course is formed with a view of meeting the wants:—

1. Of those who are unable to take the full college course in agriculture.
2. Of those who wish to obtain a knowledge of the best methods of farming and return at once to the active duties of the farm and put into practice what they have learned.
3. Of those who desire the greatest amount of directly useful information in as short a time as possible.

This course will be made so plain and practical that no previous technical education will be needed. It will be of great value to the young man who has just entered the field of agriculture, as well as to the older farmer, who has fallen into the proverbial rut.

To successfully meet the sharp competition of the present day, a better knowledge of the science and practice of agriculture is absolutely essential. There are in the State many farmers who cannot spare the time or money for a four years' course in agriculture; the Short Winter Course solves the problem for them.

Instruction.—Instruction will be given (1) by lectures, (2) by practical demonstrations, (3) by reference to the latest bulletins and reports from the State Experiment Stations, and from the Department of Agriculture.

The course will include both lectures and practical work on the following subjects: The improvement of soils, the discussion of manures, fertilizer and restorative crops; the method of seed selection with cotton and corn; corn judging; the planting, cultivating, harvesting and marketing of farm products; the testing of milk, and the making of butter; the breeding, feeding and marketing of live stock; the diseases and treatment of farm animals; the production of vegetables and fruit for home use; the economic management of the wood lot; the management of poultry for pleasure and profit; and the grading and classing of cotton. The following courses are offered.

1. **Agronomy.**—A study of soils, fertilizers, field crops and farm management. As much time as possible will be devoted to some of the most important crops; as corn, cotton, small grain, alfalfa, pastures and foliage. *Lectures and practice five hours a week.*

2. **Breeds and Breeding.**—The history, characteristics and description of the principal breeds of beef and dairy cattle, sheep, swine and horses. The adaptation of different breeds for special purposes, the care of breeding animals, the principles of breeding.

3. **Feeds and Feeding.**—The principles which underlie successful stock feeding, the compounding of rations for special purposes, stock judging. *Lectures and practice, five hours a week.*

4. **Farm Dairying.**—In this course the student will be given lectures and practical work in the elementary principles of—

   (1) Selection, care and management of the dairy cow. The importance of selection and management will be shown by a study of the different types of cows, by the use of properly kept records, and by practical work in the barn.

   (2) Care and handling of milk and its products. Lectures and practical work are given on the secretion of milk, methods of milking, the testing of milk and its products, systems of creaming, ripening the cream, churning and making butter.

   Lectures and practice, five hours a week.

5. **Special Course in Dairying.**—This course is intended especially for those who make a business of producing milk and butter for the market. It will include both lectures and practical work on the following subjects:

   Breeding and selection of dairy cows;
   Feed, care and management of dairy cows;
   Diseases of the dairy cow;
   Forage crops and pastures;
   Milk and its products.

Only a limited amount of time will be devoted to lectures and theoretical work, but the student will be required to devote a large part of each day to practical and laboratory work.

6. **Cotton Grading.**—The methods of grading and classifying both short and long staple cottons. This work will be all of a practical nature.

7. **Horticulture.**—Lectures will be given on the principles of fruit and vegetable growing, the propagation of plants, pruning, grafting, budding and spraying. Special attention will be given to the home garden and orchard. *Lectures and practice, five hours a week.*

8. **Forestry.**—Six lectures will be given on methods of handling the farm wood lot, methods of thinning and underplanting natural woods, and on methods of utilizing the waste wood products, and on planting to reclaim gullied and worn lands. Planting plans will be formulated, and the production of fence posts and other classes of woods needed on the farm will be considered.

   Six lectures will be given on beautifying the home premises, the care and planting of shade trees, the planning of the farmstead, the selection of shrubs and vines for the lawn, the grouping of decorative plants by the students, and the mapping and laying out of grounds for rural homes and country schools. *Lectures and practice, five hours a week.*

9. **Economic Entomology.**—This course will include lectures on insect pests of the farm, garden, orchard, and remedies for them. Special attention will be given to the boll weevil and fall army worm, and scale insects. *Lectures and practice, three hours a week.*

10. **Poultry Husbandry.**—The magnitude and importance of the poultry industry, history and characteristics of the breeds, mating and breeding, incubating, brooding and care of small chicks, how and what to feed, insects injurious to poultry, and how to destroy them, contagious and infectious diseases and their coops, houses, trap-nests and other fixtures, breeding for utility, fattening and finishing for market, scoring and judging. *Lectures and practice, five hours a week.*

11. **Diseases of Farm Animals.**—The contagious and infectious diseases of farm animals and their prevention and treatment. *Lectures and practice, four hours a week.*

AGRONOMY.

Professor PERKINS.

In this department instruction is given in subjects pertaining to the growing of crops. It includes soils in their various relations, fertilizers, farm implements, drainage, and field and forage crops. Teaching is done by lectures and textbook, supplemented by practical exercises in the field and laboratory.

1. **Farm Crops.**—A study of the more important cultivated crops and forage plants. Especial attention is given to cultivation, selection of seeds, improvement of varieties, and to the judging and grading of corn and cotton. An effort is made to familiarize the student with the conditions best suited to the growth of the different crops, and with methods by which these conditions may be improved. *Second term, five hours per week in class room; two hours per week in laboratory and field. Required of all Agricultural and Pedagogical Freshmen.*

2. **Soil Physics.**—This course covers, as far as is possible in the time, the study of the physical forces in their relation to agriculture. Some of the questions considered are: The formation of soils; soil temperature and conditions influencing it; soil moisture and its movements; the aeration of soils and its effect on crop production; and absorptive power of soils; all with the object of grounding the student in the truths concerning the growth of plants, and the modification of conditions that may be brought about in farming operations. *Second term and half of third term; three hours in class room, and three hours laboratory work per week. Required of all Juniors in Agricultural School.*

3. **Drainage.**—Hillside ditching, and terracing, surface drainage, and laying out and putting in tile drains. *One-half term, three hours theoretical and three hours practical work per week. Required of all Agricultural Juniors.*

4. **Farm Management.**—A study of the several systems of farming; special live stock farming; a comparison of stock farming with cotton farming with special reference to soil fertility. *Third term, five hours per week, in class room, and two hours per week in laboratory and at barns. Required of Agricultural Seniors.*

5. **Postgraduate Work.**—Elective work is offered in Agronomy as follows: The study of soil types, soil experiments, and the conducting of experiments in the field or greenhouse. The improvement of crops by seed selection in the field, history and uses of staple crops, and field work in testing varieties of plants, inoculation of soil, and requirements of various plants. *Time to be arranged.*

ANIMAL HUSBANDRY.

Professor Smith.

Live stock is the basis of successful agriculture. It is the object of this department to give the student as full knowledge of practical and scientific stock breeding, feeding, raising and finishing as the time will permit.

Theoretical instruction is given both from text books and lectures and practical work in score card and comparative judging, and feeding. The department is now splendidly equipped with different breeds and types of live stock, together with new buildings which provide every facility for feeding and caring for stock properly.

1. **Sheep and Swine.**—A study of the characteristics and description of the several breeds; selection and care of breeding animals; a discussion of pastures and pasture plants, winter feed and management. Lectures, assigned reading and score card practice. *One half-term five hours per week in class room; one term, two hours per week, in live stock barn and field. Required of Agricutural Sophomores, first term.*

2. **Beef and Dual Purpose Breeds of Cattle.**—A study of the characteristics and description of the several breeds, market types and grades. A discussion of conditions best adapted to profitable beef production. Score card practice and comparative judging. *One half-term, five hours per week, in class room; two hours per week, practical judging. Required of Agricultural Sophomores, first term.*

3. **Animal Nutrition.**—A study of the different feeds and fodders. Their composition and economic use. Comparative judging and lessons in practical feeding. *One term, five hours per week, in class*

room; two hours per week in judging and at feed barns. Required of Agricultural Juniors, second term.

4. **Principles of Breeding.**—A study of the laws of heredity with special stress on the causes and effects of variation and selection, as means of improvement. The student is practiced in tracing and studying pedigrees and comparative judging. *One half-term, five hours per week, in class room; two hours per week in live stock room and field. Required of Agricultural Seniors, third term.*

5. **Horses and Mules.**—A study of the different types and breeds of horses, selection, care and management of brood mares and foals. The feeding, care and management of work horses and mules. Special attention will be given to the raising of mule colts and the type of mare best suited for that purpose. *One half-term, five hours per week, in class room: two hours per week in live stock room. Required of all Agricultural Seniors, third term.*

ANATOMY, PHYSIOLOGY AND HYGIENE.

Professor ——————

1. **Anatomy, Physiology and Hygiene.**—The instruction in this department consists of lectures, and recitations from regularly assigned lessons. More stress is laid upon Physiology and Hggiene than upon Anatomy. Anatomy, however, is taught in its structure in order that the student may more readily comprehend the functions of the different organs in a state of health, and thus the student can appreciate the real necessity for the proper care and preservation of the body. A well equipped class room with skeletons, manikins and charts of the various parts of the body enables the student to more easily comprehend the subject. *Three hours per week, first term. Required of all students in Freshman class.*

ASTRONOMY.

See Mathematics.

BIOLOGY.

Professor HERRICK.

1. **Botany**—(*Structural and systematic*).—This course is designed to give a general idea of the structure of flowering plants and of the characteristics of the principal groups of Phanerogams. A

study of the root-systems, stems, buds, leaves, flowers, and fruits of these plants is made and finally a knowledge of the principal groups is formed through a study of common representatives. *Two hours a week recitation and four hours laboratory. Required of Agricultural and Pedagogical Sophomores. Third term.*

2. **Botany.**—(*Morphological*).—This is a continuation of Course 1. It deals with the morphology, development, and life histories of typical forms of the lower plants, such as fungi, algae, mosses, ferns, etc. Spercial attention is given to the economic forms of fungi tgether with the means of combatting diseases caused by them. *Two hours a week recitation and four hours a week in the laboratory and field. Required of Agricultural Juniors. First term.*

3. **Botany.**—(*Physiological*).—This course is designed more especially for those students desiring to enter the profession of agriculture. The students deal at first hand with the life processes of plants. The manner in which plants take up water and dispose of it, the processes of growth, the relation of plants to soil, the subject of nutrition, irritability, etc., are some of the subjects considered here. *Two hours a week recitation and four hours in the laboratory. Required of Agricultural Juniors. Second term.*

4. **Zoology.**—A general course in invertebrate zoology, dealing with the morphology, reproduction, physiology, classification, habits and geographical distribution of invertebrate forms. *Two hours a week recitation and four hours a week in the laboratory. Required of all Agricultural Juniors. Third term.*

5. **Zoology.**—The firse half of this term is devoted to a study of vertebrates in much the same manner as outlined for the invertebrates in course 4. At the beginning of the second half of the term the subject of entomology is begun and followed during the remainder of the term. *Two hours a week recitation and four hours a week in the field and laboratory. Required of all Agricultural Seniors. First term.*

6. **Zoology**—(*Entomology*).—The whole of this term is devoted to entomology, the latter half of the term being given to a consideration of the economic forms of insects, together with a careful consideration of methods and materials for spraying. *Two hours a week recitation and four hours a week in the laboratory. Required of all Agricultural Seniors. Second term.*

7. **Zoology.**—A general course in zoology for those who intend to become teachers in the public schools. A detailed study of the

main types of animal forms together with their relations to one another and their economic value is given. Special attention is given to those forms adaptable to high school work together with methods and means of presenting the subject to public school pupils. *Two hours a week recitation and four hours a week in the laboratory. Required of all Pedagogical Seniors. First term.*

8. **Research Work for the Master's Degree.**—Systematic study of the cryptograms, especially fungi; morphology and development of the species. Systematic study of the phanerogams, with special reference to the grasses and forage plants of the South. Life histories of insects and systematic study of the order as a whole; monographing a species, with special reference to the economic forms if desired; a systematic study and collection of a group of vertebrates. Both oral and written discussions of the work attempted will be required from time to time.

BOOKKEEPING.

See Mathematics.

BOTANY.

See Biology.

CHEMISTRY.

Professor Hand.
Dr. Montgomery.

The courses of elementary instruction offered by the Department of Chemistry may be conveniently grouped under the following heads:

1. General Inorganic Chemistry.
2. General Organic Chemistry.
3. Analytical Chemistry, Quantitative.
4. Agricultural Chemistry.

The general divisions of the work and an outline of the courses embraced by the above subject heads will be found in the paragraphs which follow:

1. **General Inorganic Chemistry.**—This course is required of all regular students of the sophomore class irrespective of the school under which they may be classified. The work is arranged for those who are just beginning the study of chemistry; but, in view of the important and general use of the principles of elementary physics in presenting the theoretical side, some degree of proficiency in the latter subject is very helpful, and, for the best results, a practical prerequisite. The subject matter of the text-book is carefully explained in daily lectures and recitations, which are illustrated by appropriate experiments performed before the class. Such important subjects as the general nature of solutions, reactions, chemical equilibrium, ionization, hydrolytic disassociation, mass action as influencing equilibrium, solubility product, osmotic pressure, etc., receive careful consideration. Practical laboratory study necessarily accompanies this as well as all other courses in chemistry. This division of the work is designed to enable a student to enter properly into the spirit of chemical work by verifying certain relations between the facts and theories gathered in the discussions in the lecture room and from his text-book. A few of the elements are studied somewhat in detail, thus affording a general idea of the methods of study and the details of work in chemistry. Text-books: Alexander Smith's General Inorganic Chemistry, and Smith's Laboratory Outline of General Chemistry. *Two terms, nine hours per week. Required of all regular Sophomores.*
   Professor Hand and Dr. Montgomery

2. **Organic Chemistry.**—This is a short introductory course for students electing work in the School of Agriculture. From the view-point of these students, the aliphatic bodies are of more immediate importance than the carbocylic compounds, and the subject is treated from this standpoint. Organic compounds of more general importance in agriculture are especially considered. These include the alcohols, aldehydes, vegetable oils, animal fats, sugars, starch, cellulose, etc. The laboratory study of organic chemistry includes methods of manipulation and the preparation of representative compounds of important classes of organic bodies. These preparations must be carefully purified and secured in satisfactory yield before they can be accepted. Text-books: Remson's Introduction to the Study of the Compounds of Carbon, and Gattermann's Practical Methods of Organic Chemistry. *Nine hours per week, third term. Required of all Juniors in the School of Agriculture.*
   Professor Hand and Dr. Montgomery.

3. **Agricultural Chemistry.**—The work embraced in this course involves a discussion of the application of the principles of chemistry to agriculture. Courses 1 and 2 are prerequisites. The following subjects, which receive attention in some detail, will give a general idea of the plan and scope of the work undertaken: Composition, classification, properties and formation of the organic compounds of plants, the inorganic parts of plants, composition of the atmosphere and its relation to plant growth, the chemistry of soils, commercial fertilizers, and farm manures, the function and conservation of humus, general conservation of fertility, use of legumes, crop rotation. Text-books: Storer's Agriculture in Some of Its Relations with Chemistry, and Johnson's How Crops Grow and How Crops Feed are used as a basis for the work. *Five hours per week, first and second terms. Required of all Seniors in the School of Agriculture.* Professor HAND.
4. **Agricultural Analysis.**—The course in Analytical work is intended to accompany the instruction in agricultural chemistry, and the two courses are pursued at the same time. The work is not designed for systematic training in quantitative analysis, but it is planned to assist the student of agriculture in obtaining information concerning the composition of soils, fertilizers and crops. Trustworthy knowledge of this kind can hardly be obtained outside of the laboratory. Students of general agriculture may undertake the examination of soils and fertilizers, and those taking dairy husbandry may spend some time in the analysis of milk, butter and feeding stuffs. The prerequisites are courses 1 and 2. *Four hours per week, first and second terms. Required of all Seniors in the School of Agriculture.*
   Professor HAND and Dr. MONTGOMERY.

Summer Courses.—While no regular summer courses in chemistry have been established by the faculty, the laboratories are open throughout the year, and the students who may wish to extend their regular course or to do special work during the vacation are allowed to do so at no extra expense. Students looking forward to careers as physicians or pharmacists, or who wish to prepare themselves for business in which a knowledge of chemistry is important, may find it important to take advantage of the facilities offered by the Department.

Advanced Work in Chemistry.—In addition to the undergraduate course of instruction outlined above, the

Department of Chemistry offers also to graduate students courses in analytical, agricultural, and organic chemistry as major and minor for the M. S. degree. The general nature and scope of the work is arranged by special agreement. In past years those who have taken advantage of the facilities here for a serious study of chemistry have been quite successful, and the work is now designed mainly for two classes of students:

(1) Those who wish to enter as soon as possible upon professional university courses with a view to becoming candidates for the higher degrees. The advantages which the Department can offer for this preparatory work are desirable.

(2) Those who wish to secure accurate training in analytical chemistry with the immediate view to securing positions as analytical chemists.

No time limit is set for the completion of the requirements, though two years of laboratory practice are usually necessary.

Library.—The library of the Department of Chemistry contains standard reference books relating to the various branches of pure and applied chemistry and complete sets of a number of journals. The American and the more important English, German, and French journals are received regularly. The Bulletins of the various experiment stations and the publications of the several bureaus of the Department of Agriculture are also available.

CIVIL ENGINEERING AND DRAWING.

Professor Hancock.
Mr. Freeman.

CIVIL ENGINEERING.

1. **Land and Engineering Surveying.**—This course is designed to provide instruction in the ordinary methods of land and engineering surveying. The subjects treated in the class room are, de-

scription and adjustment of surveying and engineering field instruments; field methods of land surveying, determination of error of closure, balancing the surveys, computation of areas and plotting from field notes; differential and profile leveling, heights and distances by stadia measurements, determination of the true meridian by pole star and solar methods, and thence the magnetic declination. Abundant field practice is afforded in the operations studied in the class room, actual work along all these lines being carried on as a necessary part of the course. In the practical work of this course is included a large amount of work on the drawing board. Text-book, Breed and Hosmer's Principles and Practice of Surveying. *Five hours in the class room and six hours practical work per week, first term. Required of all Civil Engineering Juniors, Mechanical and Electrical Engineering Seniors.* Professor HANCOCK.

2. **General Mechanics.**—An elementary course treating as thoroughly as may be the subjects of Kinematics, Dynamics, and Statics; particular emphasis being placed upon Graphical Statics. The subject matter of this course is selected with especial reference to the needs of Civil Engineering students in the courses which Follow. Text-book, Morley's Mechanics for Engineers. *Five hours in class room and six hours drawing per week, second term. Required of all Civil Engineering Juniors.*

   Professor HANCOCK.

3. **Elementary Roof and Bridge Design.**—In the class room the more common forms of roof and bridge trusses are studied and complete analyses of stresses due to truss weight and applied loads are worked out; both analytical and graphical methods of solution being employed. Elementary questions of design are studied as thoroughly as the time permits. A large portion of this course is given in the drawing room, where free use of the drawing board is made in the solution of actual problems. Text-book, Merriman and Jacoby's Roofs and Bridges, Part 1. *Five hours in class room and six hours practical work per week, third term. Required of all Civil Engineering Juniors.*

   Professor HANCOCK.

4. **City and Mine Surveying.**—This is a continuation of the work of the first term, Junior year. It embraces a study of the more refined and delicate methods of measurement with application to city, typographic, and mine surveying. The course is made as practical as possible by the introduction and solution of

actual problems. Text-book, Breed & Hosmer's Principles and Practice of Practical Surveying. *Five hours in the class room and six hours practical work per week, first term. Required of all Civil Engineering Seniors.* Professor HANCOCK.

5-6. **Railway Construction.**—This course is designed to give thorough training in the field methods of railway surveying, and a general knowledge of construction and operation. In the class room the subjects of alignment, crossings and switches, earthwork, costs of construction and expenses of maintenance and operation are studied. Each class is required to make a survey and all necessary maps and charts for a short line of railway. Text-book, Webb's Railroad Construction. *Five hours in class room and six hours practical work per week, second and third terms. Required of all Civil Engineering Seniors.* Professor HANCOCK.

DRAWING.

9. **Free-Hand Drawing.**—This is an elementary course, having as its objects the training of the eye to see correctly and to observe closely, and of the hand in easy and precise manipulation. The work consists of drawing straight lines and curves, outlines of objects from the black board, object drawing in outline and perspection and shading. *Two hours per week, first term. Required of all Freshman.* MR. FREEMAN.

16. **Mechanical Sketching.**—A continuation of course No. 9, special practice being afforded in sketching from simple machines or parts of machines and in free-hand lettering. *Seven hours per week, second term. Required of all Engineering and Textile Freshmen.* MR. FREEMAN.

10. **Mechanical Drawing.**—Use of Drawing instruments; geometrical constructions, orthographic projections of parts of machines, U. S. standard bolts, etc., etc. Free-hand lettering. Text-book, Anthony—Mechanical Drawing. *Seven hours per week, third term. Required of all Engineering and Textile Freshmen.*

Mr. FREEMAN.

11. **Mechanical Drawing.**—Freehand lettering; sketching from machine parts. Working drawings of objects to be made in manual training course in wood work. *Two hours per week, second and third terms. Required of all Industrial Pedagogy Freshmen.*

Mr. FREEMAN.

13. **Descriptive Geometry.**—Elementary instruction with special consideration of the needs of mechanical draftsmen. The course is intended to give thorough training in those portions of the subject which constitute the foundation of drawing. Text-book, Moyer—Descriptive Geometry. *Four hours per week, three terms. Required of all Engineering Sophomores.* Mr. FREEMAN.

14. **Machine Drawing.**—Sketches and working drawings from machine parts, shop drawings of engine parts detailed from assembly drawings, general instruction in dimensioning and drawing specifications. Text-book, Low & Bevis—Machine Drawing and Design. *Three hours per week, three terms. Required of all Electrical and Mechanical Engineering Juniors.* Professor HANCOCK.

17. **Machine Design.**—Design and drafting of fastenings; journals and shafting; bearings; belt gearing and toothed gearing, etc. Text-book, Low & Bevis—Machine Drawing and Design. *Three hours per week for three terms. Required of all Electrical and Mechanical Seniors.* Professor HANCOCK

Students' Drawing Outfit.—All engineering students are advised to provide themselves with the following drawing instruments and materials:

1 Nine-piece set of Drawing Instruments in case.
1 Pearwood T-square, 18″.
1 Pair Celluloid Triangles—6″-45°; 8″-30°x60°.
1-12″ Flat Boxwood Scale.
1 Irregular Celluloid Curve.
1-5″ Celluloid Protractor.
1 Koh-i-Noor Pencil, 4 H.
1 Pen Holder and half dozen Assorted Pens.
1 3-4 oz Bottle Black Drawing Ink.
1 Towers' "Multiplex" Eraser, 1-20 ℔.
1 Tack Lifter and File.

Equipment.—The department of Civil Engineering is well equipped for all kinds of field work; the instrumental outfit consisting of: 1 engineers' transit with solar attachment, 1 plain engineer's transit, 1 light mountain and mining transit, 1 theodolite, 1 wye level, 1 dumpy level, 1 builders' level, 1 Locke's hand level, 2 vernier compasses, 1 pocket compass, 1 plane table, 1 stadia rod, leveling rods, range poles, chains, tapes, etc.

The two drawing rooms are large and well lighted and furnished with suitable desks and secure lockers. Each student is furnished with a locker in which his drawing instruments may be left with perfect safety. The instructor's desk is supplied with a great variety of drawing instruments not included in the student's outfit; and these are for students' use as occasion may demand. A modern and complete blue-printing outfit forms a part of the equipment.

Library.—The department library contains many standard works along all lines included in the courses of instruction outlined above, and this collection is constantly being added to. These books are for students' use for reference at all times.

CIVIL GOVERNMENT.

See History and Civics.

CLINICS.

See Veterinary Science.

DAIRY HUSBANDRY.

Professor Moore.

It is the purpose of this department to give such instruction to the students taking the courses offered as will be most helpful in preparing them for their life-work. Instruction is given by the use of systematic lectures, suitable text-books, and apt experiments. Practical work is given in the farm dairy, in the creamery, and in the dairy barns.

1. **Farm Dairying.**—Lectures are given on the feed and care of the dairy cow, keeping suitable records, making the Babcock test, methods of creaming, churning, etc. *Three hours per week recitation, four hours practical, third term. Required of Agricultural Freshmen.*

2. **Milk and Its Products.**—Some of the subjects considered in this course are the composition of milk and its products; the best methods of handling milk, pasteurization and sterilization of milk, the proper conditions for ripening and churning cream, and the making of butter and cheese. *Three hours per week recitation, and two hours per week, practical; second term. Also four hours a week practical, first term. Required of Agricultural Sophomores.*

3. **Dairy Bacteriology.**—Study of bacteria in relation to dairy processes, including the production of milk, butter and cheese. Milk as a source of disease producing bacteria is also considered. *Three hours per week recitation, third term. Required of Agricultural Seniors.*

Graduate Course.—In addition to the undergraduate course of instruction outlined above, the Dairy Department offers to graduate students of this and other colleges opportunities for professional training and original investigation. The special line of study will be left largely to the selection of the student, subject to the approval of the faculty. Such students will take part in the experiments in progress, and after sufficient experience, will conduct independent investigations. For the completion of this course the student will be required to pursue an approved course of study equivalent to the work of one year of graduate study.

Equipment.—The new dairy building and dairy barn are models of their kind, and will compare favorably with such buildings found anywhere in the South. The dairy building is equipped with the most modern and improved machinery necessary for the successful dairy and creamery work, including the leading makes of testers, separators, churns, butter workers, pasteurizers, and other machinery.

In the barn we have representatives of the jersey, holstein-friesian, and red poll breeds of cattle. There are also about seventy-five head of grade and common cows that are used to illustrate the theories taught in the classroom regarding the selection, breeding, feeding and handling of dairy animals.

Short Course in Farm Dairying.—This course is intended for the dairy farmers of Mississippi who feel the need of practical instruction that will aid them in their operations on the farm and in handling the dairy produstc to the best advantage and for those young men who feel unable to undertake a college education, but yet desire to increase their earning capacity and to better fit themselves for the duties and responsibilities of life. For full information concerning this course, write for the bulletin on "The Short Winter Course in Farm Dairying."

DESIGNING.

Mr. Bagley.

1. **Weave Construction and Fabric Structure.**—This course gives an introduction to yarn calculations and such elementary designing as will be required to make specifications for the fabrics to be produced in Weaving 1. It is concomitant with Weaving 1, and sufficient time will be taken from the allotment to that course to accomplish the above results. *Two hours a week, through the year. Required of all Textile Sophomores.*

2. **Weave Construction.**—A continuation of 1. The various styles of weaves derived from so-called "foundation weaves" are studied. *Two hours a week,through the year. Required of all Textile Juniors*

3. **Weave Construction.**—A course involving the study of fancy ground weaves, piques, lenos, varieties of double cloths, etc. The study of designing from a commercial standpoint is emphasized. *Two hours a week, through the year. Required of all Textile Seniors.*

4. **Weave Construction.**—This course includes 1 and a part of 2. On account of the greater allotment of time more ground is covered. *Four hours a week, through the year. Required of all Textile Junior Specials.*

6. **Weave Construction.**—Includes the work done in 3 and a study of weaves more intricate than any in the preceding courses. The harmonious arrangement of color is dwelt upon as an important factor in marketing goods. *Four hours a week, through the year. Required of all Textile Senior Specials.*

6. **Fabric Analysis.**—In this course the students receive instruction on the calculations needed to determine the size and kind of yarn in a given piece of cloth, applying the rules to actual samples. Samples are examined for the determination of every point of construction. The analyses will correspond to the classes of goods designed in 2. *Two hours a week, through the year. Required of all Textile Juniors.*

7. **Fabric Analysis.**—The fabrics studied in this course are more complicated in nature than those in 6. Fabrics are constructed as well as analyzed, and in planning the particulars for fabrics as much originality as possible is exercised. The students by this time should be capable of making an harmonious selection of colors, a suitable choice of weave, and correct construction specifications. *Two hours a week, through the year. Required of all Textile Seniors, and Textile Senior Specials.*

8. **Fabric Analysis.**—This course is similar to, but more comprehensive than 6. *Two hours a week, through the year. Required of all Textile Junior Specials.*

9. **Jacquard Design.**—Explanation of different parts of the jacquard machine. Drawings to illustrate the simpler forms of tie-ups. The laying out of designs on squared paper. Making a design suitable for different textures and tie-ups. The application of weaves to give effects desired. Card cutting and lacing. *Two hours a week through the year. Required of all Textile Seniors, and Textile Senior Specials.*

DRAINING AND TERRACING.

See Rural Engineering.

DRAWING.

See Civil Engineering and Drawing.

DYEING.

See Textile Chemistry and Dyeing.

ELECTRICAL ENGINEERING.

See Physics and Electrical Engineering.

ENGLISH.

Professor MAGRUDER.
Associate Professor WEDDELL.
Assistant Professor DARNALL.
Mr. MELLEN (absent on leave).
Mr. FORE.
Mrs. DARNALL.
Mr. LOVE.

The object of this department is to give the student a practical knowledge of English composion, and of literature, and, along with such knowledge, the liberal culture that must follow a close study of these subjects. To this end it proposes:—

a. To give such facility in English composition, both written and oral, as the natural ability of the student makes possible.

b. To give a general knowledge of the kinship of English to other languages.

c. To teach the canons of literary criticism deduced from the study of the world's best books.

d. To give as full a knowledge of literature and the history of literature as can be acquired in the very limited time allotted to this study.

To accomplish the four purposes outlined above, the following courses are announced:

1. **Elementary Rhetoric.**—It is proposed in this course to give such instruction in the elementary principles of composition as will enable the student to express himself with some ease and skill in both oral and written discourse. The class room instruction is largely theoretical, while for practice short weekly themes (and occasional longer themes) are required of each student during the entire course. *Four hours a week, entire session.*

Collateral Reading.—Two hours a week are devoted to the critical discussion in class of such English Classics as are best adapted to the mental attainments and literary training of the student at this stage of his advancement. *Two hours a week, entire session. Required of all regular Freshmen.* Mr. FORE and Mr. LOVE.

2. **Advanced Rhetoric.**—The four standard forms of discourse (description, narration, exposition, and argumentation) are theoretically discussed, and the presentation before the class of practice work in each form is a part of the daily recitation routine of the lecture-room. Every student submits one theme each half-term on assigned subjects. Collateral Reading is assigned by the instructor. *Five hours a week, first and second terms. Required of all regular Sophomores; offered to all students prepared to take the work.* Professors MAGRUDER and DARNALL.

3. **Literary Criticism.**—This study takes up the nomenclature of literary art and the canons of criticism as annouced by Arnold, Saintsbury, Trent, and Mabie. Written reviews of the books assigned for collateral reading will constitute a part of the practice work of this course. *Five hours a week, third term. Required of all regular Sophomores; offered to all students prepared to take the work.* Professors MAGRUDER and DARNALL.

4. **History of Foreign Literatures.**—The aim of this course is to give the student some idea of the chief literary epochs and the greatest writers of the principal foreign nations (other than British) throughout history. Instruction is by text-book, by lecture, and by reading (in class) selections from some of these authors. Every student submits one essay each half-term on a subject connected with his work. Collateral Reading is assigned by the head of the department. *Five hours a week, one term. Required of all regular Juniors; offered to all students prepared to take the work.* Associate Professor WEDDELL.

5. **History of British and American Literatures.**—The aim of this course is to acquaint the student with the chief epochs in these literatures and with the characteristics of the greatest writers. The instruction is by text-book, lecture, and by reading (in class) selections from some of these authors. Every student submits one theme each half-term on a subject connected with his work. Collateral Reading is assigned by the head of the department. *Five hours a week, one term. Required of all regular Juniors; offered to all students prepared to take the work.*
Associate Professor WEDDELL.

6. **British and American Classics.**—The purpose of this course is to give pedagogical students (and others that desire it) a broader look-out upon their own literature; to teach such students how to impart their knowledge of literature to others, and how to cultivate in pupils a love of books. Instruction is given by lec-

ture and text-book and by reading (in class) selections from the best English authors of both early and late epochs. Every student is required to submit a written report on certain classics assigned for reading and study. *Five hours a week, one term. Required of all Pedagogical Juniors; offered to all students prepared to take the work.* Associate Professor WEDDELL.

7. **Masterpieces.**—The aim of this course is to familiarize students with choice specimens of the essay, the short story, and the narrative poem. To this end the class is required to read thoughtfully the works under discussion, and to submit such written reports as the head of the department shall suggest. Supplementary readings are given in class by the instructor, occasionally assisted by students. *Two hours a week for three terms. Required of all regular Seniors; offered to all students prepared to take the work.* Associate Professor WEDDELL.

ENTOMOLOGY.

See Biology.

FABRIC ANALYSIS.

See Designing.

FOREIGN LANGUAGES.

Professor BOWEN.

This department aims at the teaching of the languages in such a way that they may be of practical value to the student after he leaves college. To this end much attention is given to the reading of scientific literature, thus preparing the student to make use of the wealth of information published in other languages which is not available in English. In addition to this, the culture value of the studies is stressed. Much oral work is done, and a correct pronunciation is insisted upon. Sight reading is cultivated from the first, and conversation is carried on in the language when practicable. The department is supplied with maps, and with a set of Hoelzel pictures for use as a basis of conversation.

The texts read are changed each year, so that students desiring a more intimate knowledge of the language may repeat the advanced courses with profit. Pedagogical students are required to take seventeen periods in at least two languages during their course. The courses below are offered and are open to all students of the college, subject to the consent of the head of the department.

GERMAN.

3. **Elementary German.**—A culture course leading to the reading of the masterpieces of German literature. Agricultural and Engineering students who wish a short course in the essentials of the language will be admitted to this course. *Five hours per week for three terms. For Pedagogical Sophomores, and such Agricultural and Engineering students as may elect this course.*

4. **Intermediate German.**—A continuation of course 3. Reading of best literature. Sight reading and composition will be stressed. *Three hours per week for three terms. For Pedagogical Juniors.*

13. **Advanced German.**—A continuation of courses 3 and 4. Readings in the drama, with a brief sketch of German literature. *Three hours per week for three terms. For Pedagogical Seniors.*

FRENCH.

8. **Elementary French.**—A culture course leading to the reading of the masterpieces of French Literature. *Three hours per week for three terms. For Pedagogical Juniors.*

9. **Intermediate French.**—A continuation of course 8. Reading of best literature. Sight reading and composition will be stressed. *Three hours per week for three terms. For Pedagogical Seniors.*

LATIN.

10. **Elementary Latin.**—This course is given to beginners. In it attention is directed to the principles of pronunciation and accent, to inflected forms, to a few fundamental principles of syntax, to the translation of easy Latin into idiomatic English, and to a moderate appreciation of the Latin order. *Five hours per week for three terms. For Pedagogical Sophomores.*

11. **Caesar.**—This course embraces an equivalent of the first four books of Caesar, in the translation of which the vocabulary and the

grammar are carefully studied, and moderate practice is provided in Latin prose composition. *Three hours per week for three terms. For Pedagogical Juniors.*

12. **Cicero.**—The work consists in a study of representative orations of Cicero, with special attention to the style and to the history of the events touched upon. *Three hours per week for three terms. For Pedagogical Seniors.*

FORGE WORK.

See Mechanical Engineering.

FOUNDRY WORK.

See Mechanical Engineering.

FRENCH.

See Foreign Languages.

GEOLOGY AND MINING ENGINEERING.

Professor Logan.

1. **Physiography.**—This course is intended to constitute an introduction to the physical sciences. It treats of the Earth in its planetary relationships; of the atmosphere, its composition, temperature, and moisture conditions; of climate ,rainfall, winds and weather; of the oceans, their tides and currents, work and effect upon climatic conditions; of the land masses and their divisions; of topographic features, mountains, volcanoes, plateaus, plains, and lake basins; of the phenomena of geysers, hot springs, glaciers and underground waters; of the distribution of plants, animals and man. *Five hours per week for one term. Required of all Engineering, Textile and Pedagogical Freshmen.*

2. **General Geology.**—A study of the elementary principles of geology including a study of constructive and destructive forces and their results; the origin and structure of the surface features of the Earth; the composition, origin and mode of occurrence of the various kinds of rock; the divisions of geological time; the rocks, life, and principal economic products of each geological period. *Five hours per week for one term, required of Seniors in Agricultural, Mechanical Engineering and Pedagogy.*

3. **Elementary Geology.**—A brief course intended as an introduction to the science and comprising much of the work of the foregoing course. *Five hours per week for two terms. Required of Juniors in Civil and Mining Engineering.*

4. **Economic Geology.**—A study, from a practical and scientific standpoint, of the chief economic products of the different geological formations. The course embraces a study of the nature, origin, quantity, mode of occurrence, geologic and geographic distribution of such products as:—Coal, gas, oil, precious minerals, cements, marls, and building stones; special attention being directed to the important mineral products of Mississippi. *Five hours per week for one term. Required of Seniors in Civil and Mining Engineering.*

5. **Dynamical Geology.**—A brief course embracing the elementary principles of dynamic geology; designed to give a more comprehensive view of the forces producing land sculpture, such topographic forms as hills, mountains, lake basins, and the various phenomena connected with the gross structure of rocks, such as folds, faults, joints, and fissures; the movements of the rocks of the Earth; also the phenomena of extrusive and intrusive matter. *One term, five hours per week, required of Seniors in Civil and Mining Engineering.*

6. **Meteorology and Climatology.**—A study of all atmospheric phenomena bearing upon weather and climate, comprising a consideration of the air, its properties and functions; its weight, pressure, density, temperature, moisture, evaporation, humidity, condensation; clouds, frost, rain, hail, dew, snow; measurement of precipitation; convection; relation of pressure to winds; insolation; isotherms; isobars; effects of winds, currents and topography on climate; range of temperature; temperate zones; distribution of pressure and winds; relation of temperature and pressure; relation of pressure and winds; trades and anti-trades; monsoons; cyclones and anti-cyclones; hurricanes; typhoons; tornadoes; warm and cold waves; blizzards; rainfall; laws of distribution; weather and climate; meteorological instruments; construction of weather maps. Open to special students.

7. **Mineralogy.**—A brief course in crystallography, including a study of the different properties of crystallization; the important optical properties of minerals; the crystal form studied by means of diagrams, models and crystals; followed by a study of the more common metalliferous and silicate minerals and the methods of

their determination. *Five hours per week for two terms. Required of Seniors in Civil and Mining Engineering.*

8. Mining.—A study of the nature and origin of metalliferous deposits and other valuable mining materials; the development and exploitation of mining properties; extraction, machinery and methods of drainage of mines; mining systems; methods of excavation; machinery, tools and explosives; mine supports. *Five hours per week for two terms. Required of Seniors in Civil and Mining Engineering.*

The equipment of this department consists of a lecture room; a dark room for the use of the lantern; a laboratory equipped with suitable apparatus for the study of mineralogy; a museum containing a collection of rocks, minerals, and other illustrative material; a combination reflectoscope and stereopticon with several hundred lantern slides, photographs and other illustrations on the subjects of geology, physiography, and mining; and also much miscellaneous illustrative material in the way of maps, charts, and models.

The college library contains all of the reports, monographs, and bulletins of the U. S. G. S.; many of the reports of the state surveys and other reference books of use in the department.

GERMAN.

See Foreign Languages.

HISTORY AND CIVICS.

Professor Herbert.
Mr. Furman.

It is the purpose of the Department of History and Civics (a) to give the students some insight into the great historic movements of the world, (b) to give them some acquaintance with the method of historical study, (c) to give them such a knowledge of American history, governmental institutions, and economics as will enable them to understand and appreciate the privileges and duties of citizens. In order to carry out this three-fold purpose, liberal use of the college library is required and the following courses are offered:

HISTORY.

1. **English History.**—This course is a general treatment of the whole field of English History, with stress laid upon the leading facts and upon the growth of British institutions as a foundation for the study of American institutions. The text-book in use is Montgomery's Leading Facts of English History. *Three hours per week, first term. Required of all Freshmen.*
Professor HERBERT and Mr. ————

2. Given in History 7, 8, 9, and 10.

3. Discontinued.

4. **American History from 1761 to 1861.**—The work of this course is based on Hart's Formation of the Union and Wilson's Disunion and Reunion. Much collateral reading and two essays on assigned subjects are required of each member of the class. *Five hours per week, first term. Required of Pedagogical Seniors.*
Professor HERBERT.

7. **The Eastern Nations and Greece.**—The course is a text-book treatment of history of the nations mentioned in the title, supplemented by such informal lectures, and library and written exercise work as can be given in the time allotted. The text-book is The Eastern Nations and Greece, by Myers. *Three hours per week, third term. Required of all Agricultural Freshmen.*
Mr. ————

8. **Roman History.**—The purpose of this courses is to give the classes such an acquaintance with the history of Ancient Rome as is possible in the time. The course is given as a text-book course, with as much library and written exercise work as seems advisable. Myers' History of Rome is used as a text-book. *Time, three hours per week, third term. Required of all Agricultural Sophomores.* Mr. ————

9. **Ancient History.**—This course treats of the same period in history as is given in courses "seven" and "eight", and is the equivalent of the two, combined. *Time, Five hours per week for one term. Required of all Pedagogical Freshmen, second term; and of all Engineering Sophomores, third term.*
Professor HERBERT and Mr. ————

10. **Mediaeval and Modern History.**—A general treatment of the subject is given by means of a text-book—the text-book used is Myers's Mediaeval and Modern History, Revised Edition. This course is a continuation of courses "Eight" and "Nine", and on its completion, pupils are presumed to have a reasonable acquaintance with the outlines of the world's history, and to have acquired some facility in the use of historic literature. *Time, five hours per week for one term. Required of all Agricultural Juniors second term; of all Engineering Juniors third term; and of all Pedagogical Sophomores third term.* Professor HERBERT and Mr. ———————

POLITICAL ECONOMY.

5. **Principles of Political Economy.**—The course is merely an introduction to the study of economics, and is intended to treat of the subject in a general way. The work is given by means of a text-book—Bullock's Introduction to the Study of Economic is at present in use—and free class discussion. *Five hours per week, second term. Required of all members of the Senior class except those taking the Textile course.*

Professor HERBERT.

CIVICS.

6. **Civil Government.**—The salient points in the operation of local town, county, city, and state government in the United States, and a study of the Constitution of the United States and of Mississippi constitute the work of this course. The course is given by means of a text-book—Government in State and Nation, by James and Sanford—but collateral reading and reports on assigned topics serve to strengthen the course. *Five hours per week for one term. Required of all Agricultural Juniors, and all Engineering and Industrial Pedagogy Seniors.*

Professor HERBERT.

HORTICULTURE.

Professor ——————.
Assistant Professor CLOTHIER.
Assistant Professor MOORING.

Instruction is this department is both theoretical and practical. Theoretical instruction is obtained from text-books, lectures, reference books and periodicals in the college library, and from experiment station bulletins and other publications. In the garden, orchards, greenhouses, and upon the campus and farm, object lessons are presented and work required which illustrate in a practical manner what is taught in the class rooms.

Attention is called to the fact that horticultural students must give considerable attention to subjects in other scientific and industrial departments. Throughout the entire course much stress is placed upon laboratory and field practice. It is believed that honest work, on the part of the student, given to the subjects herein outlined, cannot fail to bring him in closer touch and sympathy with nature and better prepare him for useful citizenship when he shall have gone from college.

Instruction in the following subjects is offered by the Department of Horticulture:

1. (a) **Principles of Plant Culture**; (b) **Plant Manipulation**; (c) **Home Garden and Orchard.**—This course endeavors to give the student an outline of the life history of the plant from germination to maturity. Stress is laid upon fruit formation and reproduction, and the effects of environment are studied as it relates to variation, selection, breeding and propagation of plants. The construction and manipulation of cold frames, hot beds, and other accessories to plant propagation are studied, and practical work in grafting, budding and layering is afforded. Thoretical and practical instruction is given in the selection and preparation of soils for fruits and vegetables and in the best methods of growing these products for home consumption. *One term, five hours per week in class room and one term, two hours per week in laboratory and field practice. Required of all Agricultural and Pedagogical Freshmen.* Mr. CLOTHIER and Mr. MOORING.

2. **Commercial Horticulture.**—(a) **Truck Farming**; (b) **The Nursery Business**; (c) **Greenhouse Construction and Greenhouse Management.**—Among the subjects considered in this course are the following: The selection, preparation and tillage of fruit and vegetable soils; the rotation of garden and orchard crops with farm crops; the best methods of gathering and packing and marketing garden and orchard products; approved methods of

growing nursery stock and of handling same commercially; the construction and management of commercial green-houses. *One half term, five hours per week in class room and two hours per week in laboratory and field practice. Required of all Agricultural Sophomores.* Mr. Mooring.

3. **Farm Forestry.**—This course is intended to give the student a general idea of the relations of forests to agriculture. The following topics are treated: Influence of forests upon the farm surroundings and upon the soil bearing them; the farm wood-lot and how to manage it; rotation of forest crops with farm crops; collection and planting of forest seeds and making of forest nurseries; tree planting for timber and for adornment; importance of the forest industries to the State and Nation. *One half term, five hours per week in class room and two hours per week in laboratory and field. Required of all Agricultural Sophomores.* Mr. Clothier.

4. **School Gardening.**—This course endeavors to acquaint the student as far as time and facilities will permit with the work of designing and laying out school grounds, and embellishing the same with trees, shrubs, vines, flowers and grass. An important feature of this course is the plot work upon which the students conduct experiments in propagation and cultivation of the common garden and field crops. *One and one half terms, two hours per week. Required of all Pedagogical Sophomores.* Mr. Clothier and Mr. Mooring.

5. **Silviculture.**—The purpose of this course is to teach the student how forests are reproduced and kept in good condition. The topics treated are the following: The different silvicultural forms of forest management; forest planting; structure of tree seeds and collection and preservation of them; sowing forest seeds in the field, forest and nursery and transplanting the young trees; natural regeneration by the judicious use of the axe; protection of the forest against grazing, fire and theft. *One half term, five hours per week in class room, and two hours per week in laboratory and field practice. Required of all Agricultural Juniors.* Mr. Clothier.

6. **Plant Breeding.**—The aim of this course is to acquaint the student with the fundamental principles of plant improvement. Definite problems in breeding by crossing, hybridizing and selection are considered. The student is encouraged to submit plans for breeding nurseries and to suggest practical methods of isolating, test-

ing and roguing new varieties. A study is made of the advantages and disadvantages of seed importation. Collateral reading of the works of Darwin, Bailey, and others, is required as a part of this course. *One half term, five hours per week in class room and two hours per week in laboratory and field practice. Required of all Agricultural Juniors.* Mr. CLOTHIER.

7. **Floriculture and Landscape Gardening.**—This course endeavors to instruct the student in methods by which home grounds, urban and suburban, may be effectively and economically beautified; also to give him some knowledge of the more extended work of planning and managing public squares, city parks and street plantings. *One term, two hours per week in class room. Required of all Agricultural Seniors.* Mr. MOORING.

8. **Graduate Courses.**—Graduate students applying for M. S. degree in Horticulture elect four terms of research work during a period of two years from the following subjects: (*a*) Pomology and Commercial Fruit Growing; (*b*) Green House Construction and Management; (*c*) Vegetable Gardening; (*d*) Floriculture and Landscape Gardening; (e) Forest Management and Economics; (*f*) Plant Breeding. Students taking graduate work will be assigned reading upon special topics under the supervision of the instructor, and will be required to prepare bibliographies of the literature pertaining to the subjects investigated. The habit of close observation in the field will be essential to the completion of a graduate course.

INDUSTRIAL PEDAGOGY.

Professor HULL.

1. **Psychology.**—The various intellectual processes, consciousness attention, sensation, association of ideas, perception, memory, imagination, conception, judgment, reasoning, and apperception, are carefully studied, their dependence upon each other and upon the body is shown, and the knowledge thus gained of their nature and of the laws of their growth is carefully applied to the solution of the problems of instruction and training in school work. The text-book in use is Gordy's New Psychology, with the works of James and Dewey freely used as references. *Five hours per week, first term. Required of all Pedagogical Juniors.*

2. **The Essentials of Psychology.**—The laws of mind are studied in their relations (1) to the physical organism, (2) to the intellect,

the sensibilities, and the will, (3) to their logical issues in human conduct, and (4) in the rational interpretation of mental phenomena. The text is Halleck's Psychology and Psychic Culture. *Five hours per week, third term. Required of all Agricultural Seniors.*

3. **The Elements of Pedagogy.**—The fundamentals of psychology are reviewed and summarized, the order of mind development and the principles of teaching are examined and discussed, and the essentials of method are carefully studied and illustrated. The text in use is White's Elements of Pedagogy with copious reference to various works in the library. *Five hours per week, second term. Required of all Pedagogical Juniors.*

4. **School Management.**—The personality and preparation of the teacher, classification and the government of the school, punishment and the treatment of school evils, school virtues and school morals, incentives to school work, promotion, supervision, the improvement of school buildings and surroundings, and the enlistment of the support and interest of the community are topics that engage study and discussion. The text is White's School Mangement. *Five hours per week, third term. Required of the Pedagogical Juniors.*

5. **The History of Ancient Education.**—In this course special emphasis is laid upon those phases of ancient educational experience which present problems and conditions similar to our own, and which are, therefore, richest in helpful suggestions and practical lessons. The text is Laurie's Historical Survey of Pre-Christian Education. Compayre's History of Pedagogy will be used as a reference. *Five hours per week, first term. Required of the Pedagogical Seniors.*

6. **Educational Theory.**—The doctrines of the leading educational reformers of mediaeval and modern times, their infiuence upon the organization and purpose of modern schools, and their helpfulness to modern teachers, are closely studied. The text is Quick's Educational Reformers. *Five hours per week, second term. Required of the Pedagogical Seniors.*

7. **The Philosophy of Teaching.**—This course comprises an examination into the nature, elements, and aim of the teaching process, the universal law of method in both its general and specific phases, and a summary of the whole process with an application of the universal law to the problems of concentration, enriching the course of study, correlation of studies, educational values, morals and religion in the public school. *Five hours per week, third term. Required of the Pedagogical Seniors.*

8. **The Pedagogy of Agriculture.**—In this course by working out a series of exercises adapted to the environment of the teacher of the rural school, it will be shown that the subject of agriculture may be made an interesting and vital part of the public school curriculum, lending itself easily to the educational process, and correlating with the regular work in language, history, and arithmetic. The work will consist in lectures and in the working out of practical experiments. *Two hours per week, first term. Required of the Pedagogical Sophomores.*

9. **Current Educational Problems.**—This course will consist in research work in the college library, and in oral and written discussions in the class rooms. Among the topics to be studied next year are the following: The effective training of teachers, the school fund and its distribution, the consolidation of schools, the development of the rural high school, and how the industrial spirit may be fostered in the rural school. *First and second terms, four hours per week in the library, with bi-weekly meetings for discussion in the class room. Required of Pedagogical Seniors.*

LATIN.

See Foreign Languages.

MACHINE SHOP.

See Mechanical Engineering.

MANUAL TRAINING.

See Mechanical Engineering.

MATHEMATICS.

Professor WALKER.
Associate Professor CONDRAY.
Assistant Professor STARK.
Mr. CRITZ.
Mr. MAXWELL.

The object of this Department is to furnish thorough and practical instruction in the courses which it offers.

1. **Algebra.**—Fundamental operations, simple equations, factors, multiples, fractions, fractional equations, simultaneous equations,

of the first degree, involution and evolution, theory of exponents, radical expressions, quadratic equations, and properties of quadratics. Wentworth's Higher Algebra. *Five hours per week, first second, and third terms. Required of all Freshmen.* Professor STARK and Mr. CRITZ.

2. **Bookkeeping.**—An elementary course in bookkeeping and banking. It is thorough and practical, and fits one to take charge of any ordinary set of books. *Five hours per week, first term. Required of all Freshmen.* Mr. MAXWELL.

3. **Plane and Solid Geometry.**—Rectilinear figures, the circle, similar polygons, regular polygons and circles, lines and planes in space, polyhedrons, cylinders, cones, and the sphere. Wentworth's Plane and Solid Geometry. *Five hours per week, first term and the first half of the second term. Required of Agricultural Sophomores.* Professor CONDRAY.

4. **Plane and Solid Geometry.**—The same as course 3, but more comprehensive. *Five hours per week, third term Freshman year, and first and second terms, Sophomore year. Required of Engineering, Textile, and Industrial Pedagogy students.* Professors CONDRAY and STARK, and Mr. CRITZ.

5. **Advanced Algebra.**—Indeterminate co-efficients, binominal theorem, and common logarithms. Wentworth's Higher Algebra. *Five hours per week, second half of second term. Required of Agricultural Sophomores.* Professor CONDRAY.

6. **Advanced Algebra.**—The same as course 5, but more comprehensive. *Five hours per week, third term. Required of Engineering, Textile and Industrial Pedagogy Sophomores.* Professors CONDRAY and STARK.

7. **Plane and Sphereical Trigonometry.**—Trigonometric functions of acute angles, the right triangle, goniometry, the oblique triangle, the right spherical triangle, and the oblique spherical triangle, Wentworth's Plane and Spherical Trigonometry. *Five hours per week, first term. Required of Engineering and Textile Juniors.* Professor WALKER.

8. **Plane and Spherical Trigonometry.**—The same as course 7. *Five hours per week, first term. Required of Agricultural and Industrial Pedagogy Juniors.* Professor WALKER.

9. **Analytic Geometry.**—Loci and their equations, the straight line, the circle, systems of co-ordinates, and the conic sections. Wentworth's Analytic Geometry. *Five hours per week, second term. Required of Engineering Juniors.* Professor WALKER.

10. Differential Calculus.—Differentiation of algebraic, logarithmic, and exponential functions; successive differentiation, indeterminate forms, expansion of functions, maxima and minima, points of inflexion and singular points. Taylor's Differential Calculus, revised. *Five hours per week, third term. Required of Engineering Juniors.* Professor WALKER.

11. Integral Calculus.—Standard forms, direct intergation, definite integrals, integration of rational fractions, integration by rationalization, integration by parts, double and triple integrationt Taylor's Integral Calculus, revised. *Five hours per week, firs. term. Required of Engineering Seniors.* Professor WALKER.

12. Elementary Mechanics.—Kinetics, work, friction, energy, momentum, composition and resolution of forces, moments of forces, parallel forces, constrained equilibrium, strength of bars and beams, projectiles, hydrostatics, and hydronamics. Wood's Elementary Mechanics. *Five hours per week, second term. Required of Agricultural Seniors.* Professor WALKER.

13. Analytic Mechanics.—Composition and resolution of forces, moments, couples, centre of gravity, friction, machines, rectilinear and curvilinear motion, constrained motion, work and energy, and moment of inertia. Bowser's Analytic Mechanics. *Five hours per week, second term and first half of third term. Required of Engineering Seniors.* Professor WALKER.

14. Elementary Astronomy.—An elementary course in descriptive Astronomy. Young's Lessons in Astronomy. *Five hours per week, second half of third term. Required of Agricultural and Engineering Seniors.* Professor WALKER

15. Advanced Analytic Geometry.—Homogeneous co-ordinates of point and line, principle of duality, poles and polars, reciprocal polars, loci of the second order, and elements of higher plane curves. *Informal. Open to graduates only.*

Professor WALKER.

16. Solid Analytic Geometry.—Elements of analytic geometry of three dimensions, quadric surfaces, and twisted curves and surfaces. *Informal. Open to graduates only.* Professor WALKER.

17. Advanced Differential Calculus.—Fundamental principles and general methods with applications to problems arising in mathematics and physics. *Informal. Open to graduates only.*

Professor Walker.

18. **Advanced Integral Calculus.**—A complete treatment of the various methods of integration, definite integrals, multiple integrals, and elliptic integrals, and the elements of differential equations. *Informal. Open to graduates only.* Professor Walker.

19. **Theory of Equations.**—Study of algebraic equations, transformations, determinants, and the solutions of numerical equations. *Informal. Open to graduates only.* Professor Walker.

20. **Elements of Theory of Functions.**—Infinite series and integration, conformal representation, and algebraic functions and their integrals. *Informal. Open to graduates only.*
Professor Walker.

MECHANICAL ENGINEERING.

Professor Barnes.
Mr. Carpenter.
Mr. Spinks.
Mr. Bragg.
Mr. Herrington.

The Department of Mechanical Engineering is located in the new Engineering Building and has ample room for its work. The space allotted to this department includes an office, two large class rooms, an engineering laboratory, a wood working room, the forge shop, the foundry, the machine shop, the central power plant and several store rooms.

The wood shop is located in a detached wing, 56x92 feet and has one large room for the purpose of instruction, fitted with the best of hand tools and 25 benches for carpentry and joinery. Twenty-four turning lathes, a jig saw, and a band saw are also located in this room.

Another large room is provided for power machinery and contains a rip saw, a cutt off saw, a medium size surfacing planer, a large universal moulding machine, a steam dry kiln, and the necessary clamps and presses for glue work. A paint room and a store room are provided for the finishing of articles, and the storing of the completed product.

A 20 H. P. electric motor furnishes power for this division of the work.

The foundry is fitted with a 26-inch cupola furnace, a natural draft brass furnace, a core oven, and the tools ordinarily used in foundry work.

The machine shop is located in a large room 49x90 feet, and contains eight machine lathes; one large drill press; a shaper; tool and drill grinders; power drill and tool grinders; speed lathes; planer; a universal, motor driven, milling machine; and a large assortment of tools used in machine work. The machine shop is arranged for both steam and electric power.

The engineering laboratory is equipped with steam engine indicators, planimeters, steam guages, thermometers, calorimeters, water meters, and standard scales. It also contains four gasolene engines, two steam engines, several steam pumps, a hydraulic ram, a hot air engine, tranverses testing machine, pony brakes, and oil testing machinery.

The equipment of the central power house is also available for instruction. This includes a Harrisburg compound high speed engine, direct connected to a 40 K. W. generator, a McEwen 100 H. P. compound engine, direct connected to a 74 K. W. dynamo; two 125 H. P. return tubular boilers, one 75 H. P., B. & W. water tube boiler; two 100 H. P. Stirling water tube boilers; two large air compressors with receiving tank; steam and motor driven boiler feed pumps, vacuum pumps and feed water heaters. As the central power plant furnishes all water, steam, heat, and power for the main buildings, these groups of apparatus are also available for purposes of instruction.

The course in Mechanical Engineering covers a period of four years and aims to fit a student for the engineering work in Mississippi, and to this end lays stress on shop instruction, the machine tools, the handling of boilers, steam engines, air compressors, gas engines, pumps, and other power machinery.

Students are employed in and about the power house, and are given practical instruction in the operation of the pumping, heating, lighting and power machinery.

During the past year, a ten ton Ice Plant has been erected, and is used for illustrating the principles of refrigeration and ice making. The ice made is used by the college departments that have perishable products, and is proving of great value in the successful storing of meats and vegetables.

All engineering students take the Mechanical Course during the Freshman and Sophomore years, and then specialize as to Mechanical, Electrical, or Civil and Mining Engineering.

Those students who make Mechanical Engineering their main course during the Junior and Senior years, study the problems of the generation of power in power houses and power plants and of its transmission to operating machinery, by all methods except electrical means.

Since the power of steam is one of the main factors in our modern development of industries, boilers, engines and pumps are studied with a view of securing from them the highest efficiency.

Then, too, since the gas engine is considered by all competent engineers as a more efficient power producing machine, while yet in its infancy, than the steam engine is after a century of development, its study has a prominent place in the course.

A limited amount of time is devoted to the design of these machines, and students are required to make complete working drawings for engines designed in the class room.

While these courses are laid out for the regular students, there are many men who are not prepared, or have not the time to devote to a full course, and for them a two year special course has been prepared covering the subjects of shop work, elementary mechanical engineering, and power plant operation. These men leave the college, not as technical graduates, but as practical machinists, and power plant operators. There is a good opening for men in these lines, and all who have completed the course have good positions. The Assistant Engineer in the college power plant is usually a man selected from those men in the special Mechanical Engineering Course.

The following courses are given:

1. **Wood Work.**—Elementary instruction in bench work, involving the use of ordinary hand tools, such as planes, saws, chisels, squares, etc. Such models and exercises are constructed as will arouse interest and stimulate thought. Much stress is laid on order and neatness and the proper care and use of tools. *Two hours per week, first term. Required of all Freshmen.*
   Mr. BRAGG.

2. **Wood Work.**—This course is a continuation of course No. 1. The first part of the work is arranged in a series of useful models and exercises, which are intended to give the student practice in the ordinary methods of carpentry and joinery. Such articles as drawing boards, T squares, and small cabinet boxes are constructed. During the latter part of the course, pieces of furniture as tables, chairs, book-cases, tabourets, etc., are constructed. In this course the student is given some latitude in original design. He also has some experience in the use of wood working machinery, and in finishing with stains and varnishes. *Nine hours per week, second and third terms. Required of all Engineering Freshmen.*
   Mr. BRAGG.

3. **Wood Work.**—It is intended to make this short course as comprehensive as possible for those students who intend to follow agricultural pursuits. Besides the practical work at the bench, frequent talks are given on methods of building and repair work, estimating bills of lumber, etc. *Two hours per week, second and third terms. Required of Agricultural Freshmen.* Mr. BRAGG.

6. **Manual Training.**—This work is given in three courses, and is intended for those who are preparing themselves for teachers. The work consists of both theoretical and practical manual training as given in the best public schools of the United States. The course includes joinery, bench work, knife work, wood turning, and pattern making, and some Venetian and Card Board work.

(*a*) Bench work consists of forty models, involving the use of all ordinary tools.

(*b*) Wood-turning includes turning between centres, face plate and chuck turning, and polishing and finishing.

(*c*) Pattern making, comprises the theory of pattern making, and the construction of a few simple patterns, as will best illustrate the important points of a first class pattern.

(*d*) Venetian Iron and Card Board Work is given in sufficient amount to furnish the student with a working knowledge of these branches of manual training as taught in the lower grades. Through the course the work is based on the logical sequence of the exercises involved—from the simpler to the more difficult, and the amount of educational value contained in each model. Lectures are given on the history and theory of manual training, the care and use of tools, and the quality and nature of the various materials used. A small amount of sketching from models and writing of notes on subjects in hand is also required. *Required of Pedagogical Freshmen, Sophomores, and Juniors for one term.* Mr. BRAGG.

7. **Forge Work.**—Study of forge construction, forge tools and the making of forge fires. Calculation of stock for bent shapes, up-setting, drawing out, and bending. Exercises covering the principles of simple forge work, welding, tool dressing and tempering. Construction of lathe tools for the use of students in machine shop. The Forge Practice is supplemented by notes on the metallurgy of iron and steel; on case hardening and tempering. *Four hours per week, first and second terms. Required of all Engineering Sophomores.* Mr. CARPENTER.

8. **Forge Work.**—Description of forge and tools. The construction of a graduated set of exercises in simple forge work, embracing the principles of drawing out, bending, up-setting and welding. *Four hours a week for second term. Required of Agricultural Sophomores.* Mr. CARPENTER.

9. **Forge Work.**—A short course covering the main portion of the course given the Engineering students. *Two hours per week, two terms. Required of Textile Sophomores.* Mr. CARPENTER.

10. **Foundry Work.**—Moulding from patterns made during previous year. Casting of repair parts, and for machines under construction. Core making for iron and brass castings. *Four hours per week, third term. Required of all Engineering Sophomores.* Mr. CARPENTER.

11. **Machine Work.**—Chipping, filing, drilling, and tapping, hand work with machine tools. Elementary machine tool work on lathe, drill press and planer. Lectures and instructions on the use and care of machine tools. *Four hours per week, one term. Required of all Textile Sophomores.* Mr. Spinks.

12. **Machine Work.**—Chipping, filing, key-seating, drilling, tapping, laying out work from drawings, and hand work on machine tools. Elementary tool work with lathe, drill press and planer. For a text-book, "Handbook for Apprenticed Machinists" (Beale) is used, and its instruction supplemented with lectures on the care and use of machine tools. *Four hours per week, three terms. Required of all Engineering Juniors.* Mr. Spinks.

13. **Machine Work.**—Advanced work on lathe, drill-press, planer, and milling machine. Cylinder boring, gear cutting, making of taps and reamers, over-hauling and repairing machinery, construction of steam and gasolene engines, and other machines and apparatus needed in the shops and laboratories. Instruction in the use of jigs and templates, and methods for the quickest and most economical production of work. *Six hours per week, three terms. Required of Mechanical Engineering Seniors.* Mr. Spinks.

14. **Steam Engineering.**—Elementary study of steam engineering, covering the construction, installation, and operation of power plants; the study of the principal types of boilers, engines and pumps. Text-book: Steam Engineering, by Spangler, Greene, and Marshall. *Four hours per week, first term. Required of Textile Juniors.* Professor Barnes and Mr. Carpenter.

15. **Mechanical Engineering.**—Lectures and recitations, one term devoted to Steam Boilers and one term devoted to Steam Engines. A study of the apparatus used in the generation of steam power. Text-books: Steam Boilers (Parsons), Power and Power Transmission (Kerr). *Five hours per week, first and second terms. Required of Mechanical and Electrical Juniors.* Professor Barnes and Mr. Carpenter.

16. **Mechanical Engineering.**—Kinematics, covering the transmission of power by belts, ropes, shafting; the design of gearing, cams quick return motions, and trains of mechanism. Text-book: Kinematics (Wood). *Five hours per week, third term. Required of Mechanical Engineering Juniors.* Professor Barnes.

17. **Mechanical Engineering Laboratory.**—The application of the principles of engineering as taught in class room. The study, use,

and calibration of meters, nozzles, steam gauages, indicators, and calorimeters. Efficiency tests of boilers, engines, and pumps. Study of hydraulic rams, injectors and inspirators. *Three hours per week, three terms. Required of Mechanical Engineering Juniors.*
Professor Barnes and Mr. Herrington.

18. **Mechanical Engineering Laboratory.**—The application of the principles of engineering as taught in class room. The study, use and calibration of meters, nozzles, steam gauges, indicators, and calorimeters. Efficiency tests of boilers, engines and pumps. Study of hydraulic rams, injectors and inspirators. *Three hours per week, first and second terms. Required of Electrical Engineering Juniors.* Professor Barnes and Mr. Herrington.

19. **Mechanical Engineering.**—Strength of materials. A comprehensive study of the various materials used in the mechanic arts. Especial attention being given to the loading of beams and structures, as found in current engineering practice. Investigation of the causes that lead to the failure of materials in buildings and machinery. Text-book: "Mechanics of Materials" (Merriman). *Five hours per week, first term. Required of all Engineering Seniors.* Professor Barnes.

20. **Mechanical Engineering.**—Lectures and recitations. The study and design of gasolene engines; heating and ventilation of buildings; ice making and refrigeration; lubricants; and engineering contracts and specification. *Five hours per week, second and third terms. Required of Mechanical Engineering Seniors.*
Professor Barnes.

21. **Mechanical Engineering Laboratory.**—Operation and testing of power plants, air compressors, heating systems and various types of steam engines. Thesis work on assigned subjects. Each student is given an opportunity to have charge of the college central power station, and to become familiar with power house methods. *Four hours per week, three terms. Required of all Electrical and Mechanical Seniors.*
Professor Barnes and Mr. Herrington.

23. **Mechanical Engineering.**—A short course in Wood Work, Forge Work, Machine Work, and Power Plant operation. Designed for those students who remain at the college but a short period and who desire to become proficient in the care and operation of power plants. *Thirty hours per week.*
Professor Barnes, Mr. Carpenter, Mr. Spinks, and Mr. Bragg.

METALLURGY.

See Geology and Mining Engineering.

MILITARY SCIENCE AND TACTICS.

Professor Sessums.
Cadet Lieutenant Colonel Ward.

For the purpose of discipline and practical instruction the cadets are organized as a regiment of infantry with two battalions of four companies each with the usual officers and non-commissioned officers for line and staff. All dormitory students are located in the dormitory and mess-hall by companies and are at all times under the supervision of their company officers and non-commissioned officers. The officers and non-commissioned officers of the corps are selected from those having the strongest moral characters, who have been active and soldier-like in the performance of duty, and exemplary in their general deportment, with due regard for academic standing and length of service in the corps. Ordinarily commissioned officers are appointed from the Senior Class, sergeants from the Junior class, and corporals from the Sophomore class.

The battalion is under the command of the Commandant of Cadets, through whom discipline is maintained in all departments. The students are at all times under military control, and are thus taught habits of promptness and obedience to lawful authority, which will be of great value to the communities to which they belong. Members of the higher classes also learn to control others by exercising lawful authority, over them, and are thus fitted for greater responsibilities at home.

The course of instruction is both theoretical and practical.

THEORETICAL COURSE.

1. **Drill and Guard Duty.**—U. S. Infantry Drill Regulations, to include the School of the Soldier, Squad, Company, and Battalion, in close and extended order, Advanced Guard and Outpost duty,

Marches, Camping and Ceremonies. U. S. Guard Manual, to include the duties of sentinels, non-commissioned and commissioned officers of the guard and officer of the day. *Five hours per week, first half, third term. Required of all Juniors.*
Colonel Sessums and Lieut. Colonel Ward.

2. **Military Science.**—Instruction for the Infantry Private of the National Guard. In view of the fact that very few, if any, of the cadets ever go into the regular service, but a great number go into the National Guard, this book is used. It embraces those things that are most lacking in the National Guard of the State: Military Courtesy, Discipline, Military Forms, Correspondence, etc., Rifie Firing, Giving Direction for the Correct Use of Windage, Elevations, Distance, Atmospheric Conditions, Positions Kneeling, Standing, etc., and Care of Government Arms and Equipments.
Colonel Sessums.

PRACTICAL COURSES.

3. **Practical Infantry Drill.**—Drill in the School of the Soldier, Squad, Company and Battalion, in close and extended order, advanced guard and outpost drill. *Two hours per week during first term, two hours per week during second term, and three hours per week during third term. Required of all able-bodied students.*
Colonel Sessums and all Cadet Officers.

4. **Practical Guard Duty.**—Guard-mounting daily and sentinels posted over dormitory during meals. *Eight hours, twenty minutes per week during entire session. Required of all dormitory students when detailed.*
Colonel Sessums, the Cadet Adjutant, the Officer of the Day and the Officers of the Guard.

6. **Practical Target Practice.**—Preliminary position and aiming drills, a limited preliminary practice at short ranges and two (2) practice scores and two (2) record scores at 200 yards range and the same at 300 yards range. *Required of all able-bodied Juniors. Three hours per week during third term.*
Colonel Sessums and Cadet Captain Overstreet, Range Officer.

For the above practical instruction the United States has provided the college with 700 U. S. Magazine Rifles, calibre .30, and infantry accouterments, also a liberal allowance of ammunition, including both ball and blank cartridges for small arms.

MINERALOGY.

See Geology and Mining Engineering.

MINING ENGINEERING.

See Geology and Mining Engineering.

PHYSICS AND ELECTRICAL ENGINEERING.

Professor Ard.
Mr. Bolton.
Mr. Schupp.
Mr. Wooten.

PHYSICS.

1. **Elementary Physics.**—This course provides a year's work in pure Physics for Engineering students. The time allotted to each of the sub-divisions is so adjusted that the student may become proficient in the subjects most adaptable to the engineering professions. Mechanics and heat are taught for one and a half terms; Sound and Light for one half-term, and Electricity and Magnetism for one term. The accompanying laboratory course is devoted almost exclusively to the subject of Mechanics, thus giving the student a practical knowledge of the application of the laws of mechanics. *Five hours per week for three terms theoretical work, four hours per week for three terms laboratory work. Required of Engineering and Textile Sophomores.*

   Mr. Bolton and Mr. Wooten.

2. **Elementary Physics.**—This course covers the subjects of Mechanics, Heat, Sound, Light, Electricity and Magnetism from a standpoint of general information. The laboratory work embraces proof of the important laws of mechanics. *Five hours per week for one term theoretical work, two hours per week for one term laboratory work. Required of Agricultural Sophomores.*

   Mr. Bolton and Mr. Wooten.

3. **Elementary Physics.**—The subject is taught for the use of those who intend to engage in teaching public schools. The time allotted is only enough for a fundamental treatment. The laboratory work follows the subject as an explanation and proof. *Five hours per week for one and a half terms theoretical work, two hours per week for one and a half terms laboratory work. Required of Pedagogical Sophomores.* Mr. Bolton and Mr. Wooten.

ELECTRICAL ENGINEERING.

1. **Electricity and Magnetism.**—The subject follows the Electricity and Magnetism of the Sophomore year, entering more fully into detail and preparing the student for the study of the subjects of the Electrical Engineering course. Theory and laboratory practice are given as follows: *Theory, five hours a week for one term; laboratory practice, four hours a week for one term. Required of Electrical Engineering Juniors.* Professor Ard and Mr. Schupp.

2. **Direct Current Machinery and Design.**—This course embraces a study of the theory and application of Direct Currents and Direct Current Machinery and apparatus. Particular attention is devoted to modern machinery and its service. The theory is followed by a short course in design of some direct current apparatus. Laboratory work provides practical explanation of the theory and brings the student into application of theoretical instruction. *Theory, five hours a week for one and a half terms; laboratory work, four hours a week for one term and six hours a week for a half term. Required of Electrical Engineering Juniors.*
Professor Ard and Mr. Schupp.

3. **Electric Railway Economics.**—This course embraces a study direct current railway apparatus and practice, construction and operating costs and operating methods. The design of a small system is the requirement. *Five hours a week for one half term theoretical instruction, six hours a week for one half term laboratory instruction. Required of Electrical Engineering Juniors.*
Professor Ard and Mr. Schupp.

4. **Electrical Engineering.**—This course embraces the fundamental and practical operation of electrical machinery and apparatus and is designed for the instruction of Mechanical Engineering and Textile students. The requirement is an understanding of the theory, use and operation of plant machinery and motors, the proper construction, protection and operation of lines, inside wiring, arc and incandescent lighting. Short distance transmission is also a requirement. *Five hours a week for two terms theoretical instruction, three hours a week for two terms laboratory instruction. Required of Mechanical Engineering and Textile Juniors.* Professor Ard and Mr. Schupp.

5. **Alternating Currents.** This course embraces the theory of Alternating Current machinery and apparatus; its wave forms, generation, quantities which affect wave forms and the correction of

improper wave forms. The subject is treated graphically in so far as this is permissible. The text is supplemented by notes which adapt and explain, numerous problems are introduced, and theoretical intsruction is always developed to practical conclusions. Laboratory work is of particular service to this course in providing applications of theory to instruments, generators, motors, converters, transformers, the effects of balanced and unbalanced loads on polyphase apparatus and the operation of series lighting apparatus. *Five hours a week for one term theoretical work; eight hours a week for one term laboratory work. Required of Electrical Engineering Seniors.*

Professor Ard and Mr. Schupp.

6. **Alternating Current Machinery and Apparatus.**—This course embraces a study of commercial apparatus and machinery; its operation, care and use. A fundamental course in design is also given. *Five hours a week for one term class room work, six hours a week for one term, laboratory work. Required of Electrical Engineering Seniors.* Professor Ard and Mr. Schupp

7. **Power Transmission and Distribution.**—This course is the closing one for Electrical Engineering students and embraces applications of the instruction which has been given. The subject of transmission is developed fully as is also the subject of distribution for various purposes and by existing commercial systems. The economics of transmission and transformer distribution is carefully studied and an effort is made to develop the student as a constructing and installation engineer of power plants. A requirement of this course is a complete specification and bill of material, with costs, for a modern installation. At the proper completion of this course the student is supposed to have the training necessary to fit him for electrical pursuit as it is practiced in this section of the country and to be capable of practical operation of power plants. *Five hours a week for one term, theoretical instruction; six hours a week laboratory instruction.*

Professor Ard and Mr. Schupp.

As an evidence that this course accomplishes its object, its graduates, with few exceptions, are engaged in electrical pursuits and are giving satisfactory service, and we have more calls for graduates than we can supply.

Equipment.—The equipment in Physics is modern and of variety. The apparatus has been purchased to fit the course from a practical standpoint and is receiving additions as they become necessary. The class rooms are equipped with dark shades and lantern illustration is made a feature of the work. The laboratories are large and well lighted and have dark rooms for student use. Store rooms are conveniently located and students are encouraged to become familiar with the use of all apparatus. A complete photographic outfit has recently been installed in connection with the work in Physics; it consists of cameras ranging in size from those for small pocket use up to 8x10 view cameras, apparatus for enlargement of pictures and for making lantern slides. The necessary dark rooms are fully equipped for developing and printing and students are encouraged to use this equipment until they become familiar with practical photographic materials and methods.

The Electrical Engineering equipment is entirely modern and of variety. The students of this department maintain the college lighting and power system,which is altogether by electrical distribution; and they are also required to do all wiring and line construction as well as all motor repair. We earnestly solicit the power plants of the State to send instruments which may need calibration or repair so that the students may accomplish this during the session. The college power plant contains two direct connected units of seventy-five and forty kilowatt capacity, respectively; the college power systems are operated by thirty-four motors giving two hundred and eighteen horse power and the laboratory contains thirty-four generators and motors totalling one hundred and eighty-five horse power, about equally distributed between alternating and direct current machines. Power is available for twenty-four hours a day, and every machine is available for test, thus giving seventy laboratory machines. We have in addition a full set of wall pattern direct current instruments and portable alternating current instruments. The laboratory contains arc lamps, transformers, meters, non-inductive and inductive resistance units, testing set, full photometric testing sets, high voltage transformer, oscillograph, Kelvin balance, Weston laboratory standard instruments, galvanometers, bridges, Weber portable photometer, eighteen-inch induction coil, wireless telegraph sets, maker's sample materials, lanterns for illustrative work and other small apparatus. We endeavor to maintain this apparatus in perfect working condition and to have our students enthusiastic in obtaining its satisfactory service.

PLANT DISEASES.

See Biology.

POLITICAL ECONOMY.

See History and Civics.

PSYCHOLOGY.

See Industrial Pedagogy.

RURAL ENGINEERING.

Professor ———————.

1. **Farm Surveying and Leveling.**—The object of this course is to enable the student to do accurately all kinds of farm surveying and leveling and to get a practical knowledge of the different kinds of land drainage—surface drainage, under drainage, and hill side ditching and terracing. In addition to a theoretical study of these subjects, students make surveys of parts of the farm with chain alone, and also with chain and compass, compute the areas and make maps. With the level, they lay out surface and tile drains, hill-side ditches, level terraces, etc. In addition to the practice work, students get considerable experience in actual work on the college farm, under the direction of the instructor. They are also taught how to make and use levels to run hill-side ditches and terraces, and are enabled to compare their accuracy with that of the engineer's level. *Five hours per week for one term. Required of Agricultural Juniors.*

2. **Road Making.**—The subject is studied with special reference to existing conditions in our own State, the importance and benefits of good roads, and the progress of road improvement in other states; the characteristics of a good road as to grade, width, shape, and drainage; culverts and bridges; the most economical way of shaping and keeping in repair; improved machinery, with object lessons; our road laws; the contract system versus statutory labor; engineering work for grading and to find earth moved in cuts and embankments, with practical work; gravel roads. *Four hours per week for one term. Required of Agricultural Juniors.*

SOIL PHYSICS.

See Agriculture.

SURVEYING.

See Civil Engineering and Drawing.

TEXTILE CHEMISTRY AND DYEING.

*Associate Professor Raiford.
Associate Professor Montgomery.
Mr. Smith.

CHEMISTRY.

1. **Descriptive Chemistry.**—Non-metals; metals, their metallurgy compounds and practical application; theoretical chemistry. Lectures with experiments, written exercises and individual laboratory work. *Nine hours through the year. Required of all Textile Sophomores and of those who pursue special work with this department.* Professor Montgomery and Mr. Smith.

2. **Qualitative Analysis.**—An introduction to the subject of analytical chemistry, including the classification of metals, the chacteristic tests used for their separation from certain of their compounds; a study of the principal non-metals and the acids formed by them; the methods of separation and recognition of acids and acid radicals, and the qualitative analysis of the salts representing the bases and acids that have been so far considered; writing equations and the calculation of results. Chiefly labo-

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*On leave of absence.

ratory work. *Seven hours first term. Required of all Textile Juniors and of those who pursue special work with this department. In the special course the time will be increased to twelve hours.*

Mr. Smith.

3. **Quantitative Analysis.**—Study of the quantitative precipitation and separation of certain representative elements and compounds; a discussion of the principles according to which quantitative determinations are made, including the theory of the chemical balance, the use of burettes, graduate flasks, etc., a consideration of the relative merits of the different systems of weights and measures. Lectures, written exercises and laboratory work. *Seven hours, second term. Required of all Textile Juniors and of those who pursue the special course offered by this department. In the special course, the time will be increased to twelve hours.*

Mr. Smith.

4. **Quantitative Analysis,** continued.—An examination of the purity of certain commercial products used in textile establishments, including soda ash, bleaching powder, sulphites, nitrites, bichromates, etc. Chiefly laboratory work. *Twelve hours, third term. Required of those who pursue the special course offered by this department. Elective for Graduates who have passed in courses 1 and 3.*

Professor Raiford.

5. **Organic Chemistry.**—A general course consisting of graded exercises in the preparation and testing of carbon compounds of the fatty series, so selected as fairly to represent the characteristic differences between the various classes of compounds grouped under this head. Lectures, recitations, and laboratory work. *Seven hours, third term. Required of all Textile Juniors and of those who pursue the special course offered by this department. In the special course, the time will be increased to twelve hours.*

Mr. Smith.

6. **Organic Chemistry,** continued.—An extended study of aromatic compounds so arranged as to illustrate the methods made use of in the separation from coal tar and purification of the mother-substances and intermediate products from which the synthetic coloring matters are obtained; the preparation of samples of typical colors belonging to the acid, basic, mordant and direct classes. Lectures and laboratory work. *Twelve hours, through the year. Elective for those who pursue the special course offered by this department, and for Graduates who have passed in courses 1 and 5.*

Professor Raiford

7. **Industrial Chemistry.**—A consideration of the principles of chemistry as applied to the various manufacturing processes, with special reference to those having to do with the operations carried on in textile establishments. Lectures and laboratory work. *Twelve hours, through the year. Required of those who pursue the special course offered by this department. Elective for Graduates who have passed in courses 1 and 5.* Professor RAIFORD.

8. **Inorganic Preparations.**—A course dealing with the preparation of chemically pure salts, including the requirements for laboratory reagents in general. Lectures and laboratory work. *Twelve hours, first and second terms. Elective for those who pursue the special course offered by this department, and for those Graduates who have passed in courses 1 and 5.* Professor RAIFORD.

9. **Technical Analysis.**—An advanced course dealing with the composition and determination of purity of various mixtures and compounds used in the bleachery and dye-house. The subjects offered include the analysis of water, fuels, oils, soaps, bleaching materials, mordants, dyes, etc., and may vary with the needs of the individual student. Conferences, reports and laboratory work. *Twelve hours through the year. Required of those who pursue the special course offered by this department. Elective for approved Graduates.* Professor RAIFORD.

DYEING.

1. **Dyeing of Textile Fabrics, experimental.**—A general course dealing with the behavior of fibers toward reagents—acids, alkalies, chlorine, etc.; bleaching of cotton with various substances; the theories of dyeing; water in its application to dyeing; the application of substantive dyes to cotton—including the methods of after treatment with metallic salts, developing, coupling, etc.; the mordanting process—tannin and metallic compounds; dyeing cotton with basic and mordant dyes; the use of insoluble dyes —the application of indigo, aniline black, azo colors produced on the fiber, sulphur dyes, pigments; the mixing of colors for the production of compound shades; color matching; the valuation of dyes by means of comparative tests. *Eight hours through the year. Required of all Textile Seniors and of those who pursue the special course offered by this department. In the special course the time will be increased to twelve hours.* Professor RAIFORD.

2. **Dyeing of Textile Fabrics, practical.**—Practical application with commercial apparatus, of the principles demonstrated under the head of course 1. *Twelve hours, first and second terms. Re-*

quired of those who pursue the special course offered by this department. Elective for approved Graduates. Professor RAIFORD.

3. **Calico Printing.**—An experimental study of the principles of calico printing as illustrated in the production of direct, mordant, discharge and resist styles of work. Chiefly laboratory work. *Twelve hours, third term. Required of all who pursue the special course offered by this department. Elective for approved Graduates.* Professor RAIFORD.

VETERINARY SCIENCE.

Professor ROBERT.

This course is designed as an adjunct to the Agricultural Department of the college. Its aim is to instruct students as to the care and management of live stock with particular reference to the prevention and cure of the diseases to which animals are subject. All students in the Agricultural School are given this instruction, as indicated below. Graduates of this School are admitted to advanced standing of one year in veterinary and medical colleges. It is not our object to turn out professional veterinarians, as that would be impracticable with the time, equipment, and teaching force allotted to the department. Students desiring to study veterinary medicine as a profession should graduate from our Agricultural School if they can possibly spare the time and means, and then graduate from a regularly organized veterinary college.

This course is of a very practical nature. The theoretical instruction is supplemented by the treatment of diseases and by surgical operations in our weekly clinics. Practical material is also found almost daily among the college and station live stock.

2. **How to Care for Sick Animals.**—This course is given by lectures and by recitations from text-books. *Three hours per week. Required of all Agricultural Freshmen, third term.*

4. **Veterinary Science.**—This work includes a consideration of the more common diseases of farm animals. *Three hours per week. Required of all Agricultural Sophomores, second term.*

5. **Veterinary Medicine.**—This embraces a discussion of the ordinary contagious and non-contagious diseases of live stock. Particular stress is laid on sanitary science and preventive measures. *Required of Agricultural Juniors, five hours per week, second term.*

7. **Veterinary Clinics.**—Here we demonstrate practically the theoretical class room work. *Two hours per week during the entire session. Required of all Agricultural students.*

WEAVING.

Mr. Bagley.

1. **Hand Loom Weaving.**—Explanation of parts and working of hand looms. Weaving of such fabrics as stripes and plaids. *Two hours a week, through the year. Required of all Textile Sophomores.*

3. **Hand Loom Weaving.**—This course is similar to but more comprehensive than course 1. In it are woven the weaves which are being simultaneously studied in Designing 4. The latter part of the course consists in producing fancy fabrics similar to those analyzed in Designing 8. *Six hours a week through the year. Required of all Textile Junior Specials.*

4. **Practical Power Weaving.**—Operation of plain looms with the object of familiarizing the student with the duties of the weaver. *Three hours a week, first term. Required of all Textile Juniors.*

5. **Practical Power Weaving.**—Making and weaving of original fabrics on plain looms. Students are required to do all the work necessary to the production of an assigned number of samples. *Three hours a week, second and third terms. Required of all Textile Juniors.*

6. **Practical Power Weaving.**—Students are taught to operate and fix dobby and Jacquard looms, to design and build box chains, etc. Their familiarity with the loom is obtained through the individual production of an assigned number of fancy cotton fabrics. Ginghams, plaids, lenos, piques, cotton damasks, etc., are woven. During the last half term each student is given a loom and required to make thereon a fabric of a specified sort, leaving the loom in good running order at the end of the year. *Eight hours a week through the year. Required of all Textile Seniors.*

7. **Practical Power Weaving.**—This course is conducted along the same lines as 5 and 6, but on account of the larger allowance of

time a larger number of fabrics are woven. *Eleven hours a week, first term; fourteen hours, second and third terms. Required of all Special Textile Seniors.*

9. **Theoretical Weaving.**—Lectures and recitations on the construction and operation of plain, dobby and box looms. *Two hours a week, through the year. Required of all Textile Juniors and Junior Specials.*

10. **Theoretical Weaving.**—Lectures and recitations on the working of fancy looms, such as lenos, lappets, swivels, corduroy looms, towel looms, etc., supplemented by detailed drawings of the mechanism of each. *Two hours a week through the year. Required of all Textile Seniors and Senior Specials.*

WOODWORK.

See Mechanical Engineering.

YARN MANUFACTURE.

Professor Meadows.

Under the head of Yarn Manufacture is included a theoretical and practical study of all the processes and machines used in the manufacture of cotton yarn and in its preparation for the weave shop or yarn market; picking, carding, roving, spinning, spooling, twisting, warping, slashing and putting yarn in convenient form for handling.

1. **Operation of Machines.**—Practical working of the machines of the department to familiarize the students with the operation and functions of all the machines except the comber and the mule. *Four hours per week, first term. Required of all Textile Juniors.*

2. **Practical Carding and Spinning, Yarn Preparation, Warp Preparation.**—This is a continuation of course 1, involving practical operation, repairing and adjustment of the machines of the department. Each student is given a working amount of cotton to put through all processes in accordance with a prescribed lay-out, thereby acquiring greater familiarity with the machines, a clear understanding of the functions of the various parts and essential practical statistics concerning each machine. *Four hours per week, second and third terms. Required of all Textile Juniors.*

3. **Practical Carding, Spinning and Warp Preparation.**—In order that the students may gain that familiarity with many features of the work which may be had only by contact with the machines, practical operation of the machinery of this department continues with the introduction of cotton combing machinery and the spinning mule. This work embraces the laying out of original organizations for yarn in all processes, and the production of yarn in accordance therewith; experimental work for the determination of the most economical and efficient operation of the machines of the department. *Eight hours per week, through the year. Required of all Textile Seniors.*

4. **Theoretical Picking, Carding and Spinning, Yarn and Warp Preparation.**—This course is designed to give the student a thorough theoretical knowledge of the processes after he has completed course 1. The work is carried on by the study of text-books together with such lectures as may be profitable and necessary to the student in conjunction with course 2, that all theories may be tested and individual ideas experimented upon. *Four hours per week throughout the year. Required of all Juniors.*

5. **Theoretical Carding and Spinning.**—A more detailed study of the processes and the theory of carding and spinning including combing and mule spinning, than course 4, of which this is a continuation. This course is carried on simultaneously with course 3, and serves as a basis for the practical work therein. *Four hours per week throughout the year. Required of all Textile Seniors.*

6. **Practical Carding and Spinning.**—This course is designed for those students who do not wish to take the entire Textile Course, but who are desirous of becoming familiar with the machines and processes of yarn manufacture. It embraces all the various processes of picking, carding, drawing, roving, spinning, etc., and the time allotted enables the student to become thoroughly familiar with the details and functions of all the machines and all the machine's parts. It aims to make the student capable of repairing all the defects that may come in the work of a machine and to have that machine produce its full product. *Sixteen hours per week throughout the year.*

7. **Theoretical Carding and Spinning.**—This course is along the lines of course 4, and is carried on by the means of text-books in addition to lectures in the class room and by demonstration of the operations of the machines in the carding and spinning room. *Four hours per week throughout the year. Required of those students electing course 6.*

8. **Advanced Carding and Spinning, Practical.**—Course 8 is for those students who have completed course 6, and is a continuation of the same. Students are taught the various changes necessary for the working of different grades and staples of cotton from coarse to fine yarns. The student studies through each machine all the processes, showing the effects of the various changes necessary to a different stock of change in organization. Original organizations are planned by each student and he is personally the operator of each machine, using his own stock, and by experimenting and actual experience he is taught to guard against the defects that are possible. This course includes the operation of each and every type of machine needed in a mill producing fine yarns. *Eight hours per week throughout the year. Required of Senior Specials.*

9. **Advanced Theoretical Carding and Spinning.**—A course for those students of course 8. It aims by means of lectures and text-books to be a necessary adjunct to course 8, for the thorough understanding of the various organizations carried out practically therein. *Three hours per week, through the year. Required of Senior Specials.*

10. **Mill Economy.**—General mill construction, fire protection, heating, humidifying, etc. Cost finding in cotton mills and general mill management. *Two hours per week, third term. Required of all Textile Seniors and Senior Specials.*

ZOOLOGY.

See Biology.

PREPARATORY DEPARTMENT.

P. P. GARNER, Professor in Charge.

This department owes its existence to the act of the State Legislature by which the college itself was established and organized. It is designed to furnish a thorough elementary education to young men, particularly to sons of farmers, who are deprived of the advantages of a good high school near their home; also to prepare for the freshman class such as desire to take the college course.

COURSE OF STUDY.

The course of study is intended as a one-year course and includes the following: Agriculture, horticulture, hygiene,wood-work, drawing, farm accounts, history, grammar, arithmetic, and algebra. The scope of the work in each of the subjects is given in the following outline:

Agriculture and Horticulture.—In these subjects the work is of an elementary character. The subject matter of the text-book is supplemented by lectures and by practical work on the farm and in the green-house.

Under the head of Agriculture is taught the elementary principles of animal husbandry. The student is encouraged to spend his spare time observing and caring for the different kinds of live stock found on the college farm.

A large number of students in the Preparatory Department pay almost their entire expenses doing practical work out in the fields, around the different barns, the green-house, and the poultry houses. In this practical work an endeavor is constantly being made to find out the industrial department in which each boy is interested, and to get him to work in that department.

The text-book used is Burkett, Stevens, and Hill's Agriculture for Beginners.

Wood-Shop.—The Preparatory Department has just been provided with a wood-shop of its own. Heretofore the students of this department have had to use the shop of the college, and this could be done only when it was not needed by students in the collegiate classes. From now on, every student in the Preparatory Department will be given work in the wood-shop.

It is recognized today that the best education must not only develop the mind by means of the study of books, but must also develop the mind by training the senses and the muscles. Thought must be transmuted into action if it is to become of its highest educational efficiency. There comes also a self-confidence and peculiar strength of character from the very fact of one's being able to create something.

Then, again, the student gets at the same time a relaxation from work that is wholly mental. And incidentally he gets a great deal of useful and correct information concerning the use and care of tools and the handling of materials.

Drawing.—Drawing is taught both for its disciplinary and for its practical value. Together with the development of mind that comes of studying out how best to represent to the eye on a plane surface objects of more than one dimension, there comes to the mind a development from the training of the muscles and the eye.

Then, too, it is oftentimes of practical value to a man to be able to body forth in the form of a drawing what he has conceived in his mind.

Farm Accounts.—Every student in the Department is expected to devote one hour a day for six months to this study. The work consists in familiarizing the student with the ordinary business forms, such as bills, notes, accounts, etc., and a regular course in single entry book-keeping.

Today there are dozens of book-keepers throughout the state of Mississippi who have never had any other training for their work than that given them in the Preparatory Department of this college.

History.—The principal aim in teaching history to the students in this Department is to familiarize them with the great men and events of ancient times by storing their minds with true stories, legends, and customs of those early days, and to give them a working knowledge of the history of the English-speaking people.

The first six months is given to a rapid study of Guerber's Story of the Greeks, Story of the Romans, and Story of the English; and the last three months is given to a careful review of the main causal and resultant facts in the history of our own country. A secondary purpose in the teaching of history to preparatory students is to give them power over the printed page by giving them a clear and full grasp of the meanings of the words used in their text-books. Our Country, by Cooper, Estill and Lemmon, is the text-book used in teaching the history of the United States.

English Grammar and Composition.—One hour a day during the entire session is devoted to the study of grammar and composition. Special attention is paid to composition writing by the students in order that thereby they may acquire a correct and ready use of the English language; exercise in dictation, punctuation, use of capitals, paraphrasing and reproduction, together with writing of letters, business forms, short essays, and biographical sketches, are main features of this line of work.

The text-book is Kittredge & Arnold—The Mother Tongue.

Arithmetic.—This subject is taught both for its disciplinary and for its practical value. Its utility as a training in logic cannot be over-estimated; and it is perfectly adapted to the immature mind. A careful and thought-developing study of this subject prepares the pupil for the more abstract thinking required in algebra, and the other branches of mathematics, while the facts that he gathers from an "up-to-date" book fit him for business out in the world. *One hour a day for the entire year is given to the study.* Smith's Grammar School Arithmetic is the text-book used.

Hygiene.—One hour a day for one term is given to this subject. An attempt is made to acquaint the student with the fundamental laws of health and to get him to form correct habits. The necessity of taking care of his health is constantly kept before him. Incidentally he learns a good deal of physiology and anatomy.

Algebra.—All preparatory students who can complete the course of the department in one year are given elementary algebra during the latter half of the session. The object of this work is to familiarize the student with algebraic terminology and method, give him a thorough mastery of the fundamental operations, and introduce him to fractions, factoring, and the equation. The text-book is Wentworth's First steps in Algebra.

ENTRANCE REQUIREMENTS.

It is not the policy of the Department to admit students who have the advantages of high schools at home. Such young men must remain at home until they can enter the freshman class.

The number of preparatory students is determined each year by the number that can be accommodated in excess of those in the regular college classes.

Students entering this Department are expected to have some knowledge of grammar, arithmetic, geography, and history, besides a mastery of the art of reading and some facility in composition.

PRACTICAL WORKING BOYS' COURSE.

This course has been arranged for the benefit of those young men of the State who are unable to take the regular course. Where the means may be obtained, of course, it is much better to take one of the regular courses; but this course opens up a way by which a boy or young man may come here without a dollar and by grit and determination finally get an education. Those taking this course are only prospective students at first, working on the farm every day that the weather permits, being paid what their work is worth. They are taught an hour every night and at such other times as circumstances will permit. In one year a boy ought to save enough to enter college regularly the next session. During this year on the farm he will become familiar with all the improved breeds of cattle and how to feed them; with all the improved agricultural implements and how to handle them; and with the most scientific methods of farming. This course is supplying a long felt want, and will soon be one of the most popular in the college.

EXPERIMENT STATIONS.

W. L. Hutchinson, Director.

Four experiment stations are established for the purpose of conducting investigations in agriculture. The oldest of these stations is located at the college; one is located at McNeill in Pearl River county; one at Holly Springs, in Marshall county; and one at Stoneville, Washington county. Located as they are these stations furnish facilities for conducting experiments, the results of which will be directly applicable to the various soils and climatic conditions that obtain in the State. The college station deals with soils and conditions obtaining in the eastern part of the State; the McNeill station, with the pine-woods area in the southern part; the Holly Springs station deals with the problems of the brown loam area; and the delta station with the delta soils and problems.

The results obtained by the stations are published in a series of bulletins and cirulars which are sent to those wishing them, free of cost. These publications contain useful information concerning soils and fertilizers, live stock and feeds, rotations and restorative crops, grasses and forage plants, field and garden crops, diseases of plants and animals, injurious insects and similar important matters pertaining to agriculture.

Soils.—Experiments dealing with tillage, rotation, drainage and fertilizer problems are made at all four stations. Three of the stations deal with upland drainage or terracing to prevent surface washing, and at Holly Springs this becomes an exceedingly important piece of work. Experiments with fertilizers are of prime importance at Holly Springs, but more especially at McNeill.

Live Stock.—For their work of investigation the stations have brood mares, beef cattle, dairy cattle, and hogs. In the beef herd are grade Angus cattle obtained from native cows with a pure-bred bull. In the dairy herd are pure-bred Jerseys and grade red Polls. .The hogs are Berkshires. Mule colts are raised.

Field Crops.—Such standard crops as cotton, corn, cowpeas, oats, and potatoes are grown at all of the stations, as well as many others that may be used for improving soils and as feed for live stock.

Grasses and Clovers.—A great variety of grasses and clovers are grown each year for hay, forage and pasture purposes. Such valuable plants as alfalfa, Johnson grass, lespedeza, melilotus, bermuda, vetch, and soy beans are used regularly, while proper tests are made with many other grasses and clovers.

Garden Crops.—Information concerning the most important garden crops is obtained through the medium of experiments, and the list of plants grown comprises the most important crops for the home garden as well as those usually grown by truck farmers.

Orchard Crops.—Peaches, plums, apples, pears, and pecans are grown. Besides commercial orchards at each station, many varieties are tested.

Insects.—The station entomologist studies, in a systematic way, the life histories of some of the most important injurious insects, including the Mexican cotton boll weevil. Insects injurious to live stock receive attention as well as those injurious to plants.

Diseases of Animals.—The most commonly occurring diseases of animals are studied by the veterinarian, special attention being given to southern cattle fever and black leg.

Dairying.—The station dairyman regularly gives attention to such problems as arise in the handling of milk and its products and the management and care of a herd of dairy cattle.

While the work of the stations is intended primarily to be helpful to the farmers of the State, still the students attending college have access to the experiments made at the college station and to the results obtained at all the stations. The results are also used by the professors and instructors in the class rooms. Each member of the station force also devotes about one month, in summer, to farmers' institute work.

THE MILITARY ORGANIZATION.

J. C. Hardy, President, Head of Military Department.
I. D. Sessums, Commandant.

THE REGIMENT.

S. C. Ward, Lieutenant Colonel, Commanding Cadet Corps, and Assistant Commandant.

REGIMENTAL STAFF.

E. D. Gunning	Captain and Adjutant.
E. R. Blanton	Captain and Quartermaster.
N. W. Overstreet	Captain and Range Officer.
T. H. Middleton	Sergeant-Major.
W. Mitchell	Ordnance-Sergeant.
B. Mitchell	Quartermaster-Sergeant.

BAND.

W. W. Routten	Director of Band, Teacher of Music.
H. O. Jones	Captain.
E. T. Nelson	First Lieutenant.

SERGEANTS.

W. S. Robbins, E. B. Robbins, C. J. Rhodes.

FIRST BATTALION.

J. M. Rigby	Major Commanding.
J. Dabney	First Lieutenant and Adjutant.
J. B. Roberds	Second Lieutenant and Quartermaster.
G. Guyton	Sergeant-Major.
R. W. McCargo	Quartermaster-Sergeant.

Company A:

E. H. Walker	Captain.
G. S. Weems	First Lieutenant.
S. M. Yeates	Second Lieutenant.
J. E. Thomas	Third Lieutenant.
A. A. Loflin	First Sergeant.

SERGEANTS.

J. L. Mitchell, R. M. McCool, E. E. Cooley, J. W. Thomas, J. W. Woodward.

CORPORALS.

W. E. Brougher, N. S. Cutrer, M. H. James, L. R. Stevens, H. G. Carpenter, W. C. Rose.

Company B:

J. T. Pinkston	Captain.
W. Lindsey	First Lieutenant.
L. W. Lincoln	Second Lieutenant.
W. G. Johnson	Third Lieutenant.
E. R. Strahan	First Sergeant.

SERGEANTS.

E. S. Morris, D. Raney, L. J. Stone, E. N. Graves.

CORPORALS.

J. V. Brady, J. L. Riley, P. F. Newell, G. C. Stroud, P. Newell, M. M. Tabb, R. W. Graves, T. E. Winn.

Company C:

C. M. Pope	Captain.
J. L. Mays	First Lieutenant.
H. L. McGeorge	First Lieutenant.
L. C. Bradford	Second Lieutenant.
S. M. Tate	Third Lieutenant.
D. Thomas	First Sergeant.

SERGEANTS.

J. C. McFarland, R. S. Mitchell, J. S. Whitworth, M. J. Luster.

CORPORALS.

E. M. Alderman, E. W. Lehman, C. P. Seab, P. K. Lutkin, J. A. Massey, R. W. Maxwell, J. N. Lipscomb.

Company D:

A. W. McRaney	Captain.
W. L. Lipscomb	First Lieutenant.
F. McCormick	Second Lieutenant.
D. L. Bryant	Third Lieutenant.
G. W. Smith	First Sergeant.

SERGEANTS.

O. Russell, J. G. Bennett, A. E. Mullins.

CORPORALS.

W. L. Hobby, E. L. Prevost, E. S. Brashier, K. B. Forkner, R. M. Lobdell, H. I. Elsie.

SECOND BATTALION.

C. N. Brumfield	Major, Commanding.
G. H. Palmes	First Lieutenant and Adjutant.
T. H. Dee	Second Lieutenant and Quartermaster.
W. P. Craddock	Sergeant-Major.
C. E. Dorroh	Quartermaster-Sergeant.

Company E:

L. G. Prentice	Captain.
J. V. Rabb	First Lieutenant.
J. P. Walker	Second Lieutenant.
J. E. Lea	Third Lieutenant.
C. A. Knight	First Sergeant.

SERGEANTS.

R. B. Bagby, D. T. Horn, W. R. Nettles, W. F. McRaney.

CORPORALS.

C. B. Bethea, L. R. Sanders, C. T. Stevenson, W. H. Bowman, A. J. Brown, C. L. Rife, C. Cothern, R. J. Wilson.

Company F:

W. M. Spann	Captain.
R. M. Wiley	First Lieutenant.
W. P. Martin	Second Lieutenant.
H. G. Edmonson	Third Lieutenant.
J. W. Sargent	First Sergeant.

SERGEANTS.

T. J. Head, J. P. Stiles, P. F. Lyons, J. B. Anthony.

CORPORALS.

C. D. Ratcliff, G. C. McLeod, W. R. Vernon, D. C. Funderburk, S. R. Simmons, P. R. Greaves.

Company G:

J. R. Fewell	Captain.
E. C. McInnis	First Lieutenant.
W. L. Warner	Second Lieutenant.
S. P. Dent	Third Lieutenant.
C. G. Smith	Third Lieutenant.
L. W. Stampley	First Sergeant.

SERGEANTS.

W. C. Jones, W. E. Holmes, J. L. Thornhill, W. T. Kotch, O. C. Thigpen.

CORPORALS.

J. K. Cutrer, J. P. Fisher, L. H. Williford, A. J. Flowers, H. A. Watrous, C. A. Overton, J. A. Weeks, W. C. Mathis.

Company H:

C. B. Haddon	Captain.
H. A. Carpenter	First Lieutenant.
I. W. Carpenter	First Lieutenant.
H. A. Murphy	Third Lieutenant.
S. L. Foster	First Sergeant.

SERGEANTS.

J. C. Walker, W. C. Hudson, O. Black.

CORPORALS.

C. H. Redditt, W. V. Bailey, J. D. Lofton, B. L. Cathey, J. N. Toole, H. T. Pollard, B. E. Walker, F. D. Cooke.

REGISTER OF STUDENTS.

GRADUATES.

Cork, J. D., B. S.	Pedagogy
Herrington, J. A., B. S.	Engineering
Nichols, H. S., B. S.	Agriculture
Stallworth, H. W., B. S.	Chemistry
Thomas, D. H., B. S.	Dairy Husbandry

UNDERGRADUATES.

SENIOR CLASS.

AGRICULTURAL COURSE.

NAME.	COUNTY.	NAME.	COUNTY.
Blanton, E. R.	Marshall	Johnson, W. G.	Alabama
Bryant, D. L.	Perry	Jones, H. O.	Quitman
Carpenter, H. A.	Oktibbeha	Martin, W. P.	Grenada
Carpenter, I. W.	Oktibbeah	Mayes, J. L.	Lauderdale
Cobb, C. A.	Tennessee	Prentice, L. G.	Pearl River
Colbert, V. C.	Attala	Rabb, J. V.	Wilkinson
Dee, T. H.	Lowndes	Reed, S. H.	Choctaw
Dent, S. P.	Claiborne	Roberds, J. B.	Monroe
Eason, V. V.	DeSoto	Smith, C. G.	Alcorn
Edmonson, H. G.	Simpson	Stallworth, C. G.	Lauderdale
Ellard, W. H.	Attala	Wiley, R. M.	Tennessee
Haddon, C. B., Jr.	Scott	Yeates, S. M.	Oktibbeha

ENGINEERING COURSE.

NAME.	COUNTY.	NAME.	COUNTY.
Bell, J. B.	Lowndes	McGeorge, H. L.	Lowndes
Blumberg, M. D.	Coahoma	McInnis, E. C.	Simpson
Bradford, L. C.	Carroll	Nelson, E. T.	Jackson
Culley, C. N.	Holmes	Overstreet, N. W.	Jones
Dabney, J.	Washington	Palmes, G. H.	Wayne
Dean, R. D.	DeSoto	Pinston, J. T.	Lauderdale
Dent, H. M.	Noxubee	Rose, C. M.	Yazoo
Ervin, J. B.	Clay	Spann, W. M.	Leflore
Fox, W. W.	Oktibbeha	Tate, S. M.	Noxubee
Goodman, A. L.	Oktibbeha	Thomas, J. E.	Oktibbeha
Kethley, B. L.	Copiah	Walker, J. P.	Tennessee
Lincoln, L. W.	Lowndes	Walton, H. C.	Monroe
Lipscomb, W. L., Jr.	Lowndes	Ward, S. C.	Madison
Mason, E. P.	Lauderdale	Weems, G. S., Jr.	Clarke
Murphy, H. A.	Clarke	Wooten, O. B.	Tate

PEDAGOGICAL COURSE.

NAME.	COUNTY.	NAME.	COUNTY.
Brahan, T. W.	Lauderdale	Magruder, W. W.	Oktibbeha
Brumfield, C. N.	Pike	McCormick, F.	Clark
Fewell, J. R.	Tate	McRaney, A. W.	Covington
Gunning, E. D.	Hinds	Pope, C. M.	Clarke
Jackson, T. F.	Noxubee	Rigby, J. M.	Clarke
Lea, J. E., Jr.	Amite	Walker, E. H.	Clay
Lindsay, W.	Jones	Warner, W. L.	Holmes

JUNIOR CLASS.

AGRICULTURAL COURSE.

NAME.	COUNTY.
Anthony, J. B.	Attala
Baird, G. E.	Sunflower
Carr, I. P.	Pontotoc
Critz, H. T.	Oktibbeha
Dorroh, C. E.	Noxubee
Harrison, R. P.	Washington
Hosey, G. W.	Jasper
Lenoir, S. P.	Monroe
Luster, M. J.	Claiborne
Mitchell, B.	Panola
Mitchell, J. L.	Issaquena
Mitchell, R. S.	Tippah
Mitchell, W.	Panola
McCool, R. M.	Attala
McFarland, J. C.	Jones
Nettles, W. R.	Wilkinson
Raney, D.	Lauderdale
Robbins, E. B.	Leflore
Robbins, W. S.	Leflore
Royals, W. C.	Lauderdale
Stiles, J. P.	Noxubee

ENGINEERING COURSE.

Bagby, R. B.	Wayne
Bennett, J. G.	Copiah
Birch, M. T.	Monroe
Black, O.	Jackson
Boggan, G. S.	Simpson
Chisolm, F. N.	Hancock
Cooley, E. E.	Lauderdale
Craddock, W. P.	Lowndes
Crow, B.	Washington
Deale, W. A.	Noxubee
Didlake, W. M.	Oktibbeha
Foster, S. L.	Alabama
Graves, E. N.	Wilkinson
Hafner, D. M.	Carroll
Hafner, W. H.	Carroll
Head, T. J.	Warren
Hemingway, W.	Harrison
Holmes, Wm. E.	Attala
Hudson, W. C.	Grenada
Jones, W. C.	Carroll
Knight, C. A.	Kemper
Knost, C. P.	Harrison
Koch, W. T.	Hancock
Lass, C. A.	Oktibbeha
Lyons, P. F.	Warren
Magruder, L. A.	Yazoo
Moncrief, N. C.	Oktibbeha
Montgomery, W. B.	Clay
Morris, E. S.	Lawrence
McCargo, R. W.	DeSoto
McClanahan, W. H.	Lowndes
McCrary, W. F.	Clay
Newton, G. C.	Georgia
Ragsdale, R. B.	Lowndes
Rhodes, C. J.	Franklin
Ross, F. A.	Jefferson
Searles, T. M., Jr.	Warren
Sternberger, A.	Pike
Thigpen, O. C.	Jasper
Thomas, J. W.	Oktibbeha
Thornhill, J. L.	Pike
Trotter, G. P.	Louisiana
Walker, J. C.	Rankin
Whitten, L. H.	Hinds
Wise, J. S.	Yazoo
Woodard, J. W.	Greene

PEDAGOGICAL COURSE.

Boydston, R. W.	Winston
Dillie, Miss M. L.	Oktibbeha
Guyton, G.	Attala
Horn, D. T.	Jasper
Kaplan, N. W.	Sunflower
Kite, T. C.	Choctaw
Loflin, A. A.	Rankin
Middleton, T. H.	Copiah
Mullins, A. E.	Lowndes
McKie, C. A.	Madison
Neal, D. C.	Lauderdale
Puller, J. S.	Oktibbeha
Russell, O.	Newton
Sargent, J. W.	Choctaw
Skinner, R. E.	Lowndes
Smith, G. W.	Harrison
Stampley, L. W.	Montgomery
Stone, L. J.	Lauderdale
Strahan, E. R.	Forrest
Thornton, M. K.	Oktibbeha
Waters, B. W.	Lowndes
Whitworth, J. S.	Madison

TEXTILE COURSE.

NAME.	COUNTY.	NAME.	COUNTY.
Shelton, J. B., Jr.	Lowndes	Thomas, D.	Prentiss

SOPHOMORE CLASS.

AGRICULTURAL COURSE.

Alderman, E. M.	Lincoln	Lofton, J. D.	Lincoln
Atkinson, F.	Newton	Mathis, W. C.	Alcorn
Brashier, E. S.	Clarke	Mitchell, W. L.	Panola
Carpenter, H. G.	Oktibbeha	Mosley, G. M.	Clay
Crockett, E. N.	Tate	McLeod, G. C.	Greene
Cutrer, N. S.	Pike	McNeil, C. L.	Lee
Falkner, K. B.	Madison	Newell, P. F.	Pontotoc
Fernandez, J. F.	Mexico	Prevost, E. L.	Attala
Fisher, J. P.	Tate	Puryear, H. H.	Tate
Flowers, A. J.	Carroll	Ratliff, C. D.	Holmes
Funderburk, D. C.	DeSoto	Redditt, C. H.	Carroll
Geisenberger, M. L.	Adams	Rush, B. G.	Calhoun
Gilbert, C. F.	Kemper	Sides, J. E.	Tennessee
Giles, M. J.	Kemper	Sloan, W. A.	Tate
Greaves, P. R.	Hinds	Smith, F. M.	Kemper
Hudson, T. F.	Clarke	Spann, H. R.	Jasper
Hughes, O. H.	Harrison	Sumrall, N. W.	Lauderdale
Jones, E. R., Jr.	Marshall	Sumrall, R. W.	Lauderdale
Jones, F. H.	Alabama	Toole, J. N.	Attala
Jones, J. O.	Pike	Watson, B. K.	Choctaw
Lipscomb, J. N.	Noxubee	Watson, W. A.	Rankin
Lloyd, E. R., Jr.	Oktibbeha	Weeks, A. A.	Webster
Lobdell, R. N.	Bolivar	Weeks, J. A.	Holmes

ENGINEERING COURSE.

Atkinson, A. G.	Chickasaw	Gladney, T. G.	Oktibbeha
Bardwell, J. A.	Yazoo	Gorenflo, D. J.	Harrison
Bass, F. B.	Jefferson Davis	Grant, R. P.	Lauderdale
Bethea, C. B.	Lamar	Graves, R. W.	Wilkinson
Billingslea, DeWitt	Montgomery	Halbert, W. J.	Hinds
Bowman, W. H.	Holmes	Hemphill, J. S.	Carroll
Brandon, H. W.	Wilkinson	Henry, J. F.	Oktibbeha
Brandt, G. C.	Harrison	Hester, W. W.	Hinds
Brisbane, R. A.	Pike	Hill, H. N.	Yalobusha
Brown, A. J.	Adams	Holmes, G. L.	Pontotoc
Callender, J. C.	Lincoln	James, M. H.	Madison
Cammack, W. W.	Jefferson	King, B. F.	Leflore
Cathey, B. L.	Tate	Knost, W. A.	Harrison
Cloos, W. D.	Oktibbeha	Lee, T. J.	Bolivar
Dancy, J. J.	Marshall	Lehman, E. W.	Franklin
Dix, D. M.	Adams	Lilly, A. A.	Copiah
Dorman, W. M.	Holmes	Lucas, W. Y.	Oktibbeha
Ferrell, S. M.	Benton	Lutken, P. K.	Hancock
Flow, D. R.	Arkansas	Massey, J. A.	Madison
Fox, V. B.	Neshoba	Morrison, C. E.	DeSoto
Furman, H. B.	Oktibbeha	Mosley, M. R.	Harrison

NAME.	COUNTY.
McLellan, J. W., Jr.	Holmes
McMillan, L. K.	Carroll
Overstreet, L. L.	Jones
Overton, C. A.	Alcorn
Purvis, S. E.	Alabama
Riley, J. L.	Lee
Roberts, B. Q.	Hancock
Robinson, F. T.	Jones
Russell, C. H.	Jones
Smith, E.	Lauderdale
Spires, W. P.	Newton
Stevens, L. R.	Copiah
Stevenson, C. T.	Union
Stoy, H. E.	Georgia
Tabb, M. M.	Chickasaw
Team, R. B.	Lauderdale
Thomas, E. C.	Oktibbeha
Tucei, E. A.	Harrison
Vernon, W. R.	Lincoln
Walker, B. E.	Rankin
Walker, B. M., Jr.	Oktibbeha
Walker, W.	Oktibbeha
Wall, H. H.	Wilkinson
Wampold, C. H.	Adams
Watrous, H. A.	British Honduras
Williford, L. H.	Carroll
Wilson, R. J.	Lee
Winn, T. E.	Jones

PEDAGOGICAL COURSE.

Alderman, A. D.	Lincoln
Allen, M. O.	Noxubee
Anderson, H.	Lee
Bailey, W. V.	Holmes
Bolton, R.	Leflore
Brougher, W. E.	Tennessee
Cooke, F. D.	Webster
Cothern, L.	Pike
Cutrer, J. K.	Pike
Ellzey, H. I.	Marion
Glaze, H.	Leake
Guess, J. A.	Attala
Harrington, H. H.	Chickasaw
Helms, J. W.	Jasper
Hobby, W. L.	Neshoba
Holloway, W. P.	Lincoln
Jarvis, W. D.	Kemper
Jones, O. G.	Rankin
Maxwell, R. W.	Lawrence
Polk, S. T.	Lamar
Rose, W. C.	Greene
Sanders, H. B.	Attala
Sanders, L. S.	Attala
Seab, C. P.	Franklin
Sieber, J. A.	Marshall
Simmons, S. R.	Pike
Spinks, P. E.	Kemper
Stroud, G. C., Jr.	Lauderdale
Thompson, W. H.	Hinds
Walker, W. J.	Rankin
Ward, W. E.	Oktibbeha
Witt, W. J.	Lee

TEXTILE COURSE.

Johnston, S.	Clarke
Killingsworth, C. E.	Calhoun
Killingsworth, R. E.	Calhoun
McCoy, W. H.	Panola
Newell, P.	Pontotoc
Pollard, H. T.	Panola
Walton, F. L.	Lauderdale

FRESHMAN CLASS.

AGRICULTURAL COURSE.

Abbey, R. H.	Alcorn
Anthony, H. C.	Attala
Armstrong, G. H.	Bolivar
Baker, W. H.	Monroe
Barnes, H.	Smith
Bass, B. K.	Alcorn
Beard, A. V.	Pontotoc
Bennett, W. G.	Copiah
Bizzell, H. M.	Tate
Brashier, R. H.	Clarke
Brewer, C. A.	Lincoln
Byall, S.	Washington

NAME.	COUNTY.
Carr, R. T.	Pontotoc
Cohen, E. E.	Pike
Combs, H. G.	Noxubee
Daniel, W. E.	Tippah
Darrill, G. B.	Leake
Darrill, W. C.	Leake
Duke, L. L.	Lee
Eason, E. E.	DeSoto
Gammill, J. W.	Choctaw
Glenn, J. V.	Carroll
Goza, A. F.	Bolivar
Hardy, R. M.	Washington
Hardy, W. T.	Newton
Hargrove, A. S.	Clarke
Harris, G. W.	Copiah
Hollingsworth, J. E.	Chickasaw
Holmes, B. M.	Montgomery
Horton, W. R. L.	Tippah
Hudson, L. I.	Grenada
Jennings, J. M.	Panola
Kerr, E. G.	Oktibbeha
Langston, J. M.	Covington
Lee, J. E.	Pike
Little, C.	Copiah
Lowry, A. C.	Pontotoc
Melton, J. E.	Clay
Milam, W. S.	Sharkey
Mitchell, M. C.	Winston
Mottley, R. T.	Panola
McCormick, A. F.	Jones
O'Neal, C. E.	Harrison
Rea, R.	Copiah
Rigby, R. H.	Clarke
Robertson, J. H.	Clay
Robertson, T. D.	Clay
Russell, C. F.	Rankin
Sauls, S. T.	Lawrence
Scott, R. O.	Webster
Sledge, E. M.	Louisiana
Sledge, M. K.	Sunflower
Stevens, R. L.	Hinds
Stiles, C. F.	Oktibbeha
Stubblefield, F. W.	Rankin
Tate, T. W.	Noxubee
Teasley, F. N.	Carroll
Till, P. H.	Copiah
Turner, H. B.	Attala
Wands, G. S.	Louisiana
Whitaker, E. B.	Hinds
Womack, M. S.	Webster
Wood, L. E.	Washington

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* Deceased.

ENGINEERING COURSE.

Agnew, J. R.	Union
Alston, P. D.	Oktibbeha
Atwood, R. R.	Copiah
Baker, E. C.	Rankin
Barrier, J. H.	Yazoo
Benedict, B. S.	Prentiss
Blackman, H. T.	Warren
Brewton, J. I.	Panola
Broadfoot, M. D.	Smith
Brogan, W. B.	Clay
Bryant, L. C.	Hinds
Buckley, W. H.	Copiah
Burt, A. K.	Clay
Camp, E. L.	Monroe
Carpenter, C. J.	Oktibbeha
Cawthon, S. C.	Forrest
Chiles, W. R.	Oktibbeha
Clement, R.	Virginia
Clements, B. A.	Lowndes
Dufore, W. A.	Covington
Ernest, G. P.	Sunflower
Fondren, R. R.	Hinds
Ford, J. L.	Copiah
Fortner, W. O.	Webster
Golding, T. W.	Lowndes
Harrison, E.	Lowndes
Henkel, J. O., Jr.	Lowndes
Hogan, J. B.	Oktibbeha
Hopkins, J. L.	Lowndes
Johnston, J. V.	Tate
Jones, H. S.	Leflore
Journey, A. L.	Calhoun
Journey, W. C.	Calhoun
Kelley, L.	Amite
Koonce, L. B.	Grenada
Kornegay, C.	Madison
Lewers, H.	Tate
Lowery, H. R.	Harrison
Magruder, H. W.	Forrest
Margolis, D.	Oktibbeha
Minyard, T. D.	Montgomery
Mobley, B. H., Jr.	Harrison
Moore, H. W.	Tennessee
McCain, H. H.	Yalobusha

NAME.	COUNTY.
McGilvra, E. O.	Rankin
McGraw, H. J.	Yazoo
McMurtray, W. B.	Yazoo
Nash, W. R.	Lowndes
Neely, E. G.	Tennessee
Posner, H.	Clay
Ransom, R. C.	Montgomery
Rembert, F. M.	Copiah
Rhodes, S. W.	Franklin
Ridgeway, J. E.	Oktibbeha
Roberds, C. E.	Monroe
Rogers, S.	ovingtonC
Scott, B.	Noxubee
Scott, J. H.	Pike
Seale, A. L.	Montgomery
Smith, R. M.	Issaquena
Spann, F. G.	Leflore
Teal, A. M.	Carroll
Team, E. L.	Jackson
Utsey, A. N.	Wayne
Varnado, S. R.	Pike
Welborn, H. C.	Oktibbeha
Wheat, W. E.	Wayne
Wood, R. T.	Montgomery

PEDAGOGICAL COURSE.

Barrett, C. P.	Attala
Bass, O. H.	Lawrence
Bethany, J. C.	Kemper
Bounds, J. E.	Kemper
Bryan, A. C.	Kemper
Butts, A. B.	Lowndes
Cable, J. F.	Carroll
Campbell, R. M.	Attala
Clark, F. E.	Tennessee
Cobb, T. C.	Calhoun
Cockrell, W. L.	Clay
Dille, A. B.	Oktibba
Ellis, F. N.	Clay
Ferguson, F. D.	Jones
Fugate, C. H.	Copiah
Guyton, J. S.	Attala
Guyton, T. L.	Attala
Hale, W. N.	Lafayette
Hallman, I. P.	Leake
Harris, J. A.	Lee
Holmes, M. G.	Pontotoc
Houston, A. F.	Leake
Houston, S. W.	Leake
Hubbard, F. J.	Noxubee
Hurst, L. A.	Noxubee
Jackson, A. F.	Yalobusha
Jackson, S. A.	Attala
Kerr, Miss J.	Oktibbeha
Lowry, W. A.	Hinds
Lucas, J. L., Jr.	Oktibbeha
Martin, W. H.	Grenada
Merchant, L. C.	Leake
Patrick, J. A.	Rankin
Rand, C. T.	Harrison
Robertson, J. B.	Yazoo
Roby, D. C.	Bolivar
Sanders, J. I.	Holmes
Spearman, W. A.	Yalobusha
Stewart, A. C.	Sharkey
Vaughn, J. R.	Lowndes
Vest, J. H.	Copiah
Welborn, Miss M.	Jones
Winters, R. R.	Calhoun
Woodward, W. R.	Noxubee
Wright, J. H.	Forest

TEXTILE COURSE.

Easterling, W. D.	Perry
Fowler, R. G.	Panola
Grantham, F. D.	Simpson
Jones, C. E.	Perry
Newell, S. F.	Pontotoc
Rogers, J. R.	Covington
Saul, T. G.	Clay
Savely, T. S.	Chickasaw
Sykes, W. M.	Montgomery
Thomas, F. D.	Lee
Trim, L. J.	Claiborne
Welborn, W. A.	Jones
Wolfe, O. O.	Hinds
Wynne, O. J.	Bolivar

Freshmen—UNCLASSIFIED.

Adams, L. S.	Noxubee
Alford, W. G.	Copiah
Anderson, J. M.	Noxubee
Bacon, J. C.	Madison
Barham, H. C.	Neshoba
Barnett, W. R.	Tippah

NAME.	COUNTY.
Bennett, G. G.	Attala
Boydston, S. F.	Winston
Bradford, W. D.	Chickasaw
Brown, W. C.	Attala
Byrd, L. K.	Franklin
Caldwell, G. A.	Alcorn
Chadwick, C. W.	Carroll
Chapman, E. E.	Hinds
Chorley, E. C.	Panola
Coats, L. L.	Yalobusha
Collier, T. H.	Rankin
Cost, T. H.	Yalobusha
Dalton, H.	Lee
Ellison, J. W.	Clay
Exum, E.	Yazoo
Farmer, W. B.	Holmes
Gladney, H. R.	Lee
Goldman, J. A.	Bolivar
Harding, E. J.	Hinds
Herren, D.	Yazoo
Herrington, B. Z.	Jones
Hill, J. G.	Grenada
Hunter, J. D.	Holmes
Hunter, J. Q., Jr.	Newton
Jolly, R. I.	Newton
Jones, C. C.	Hinds
Lamar, A. V.	Calhoun
Loflin, J. L.	Rankin
Loflin, O. T.	Lawrence
Luke, L. E.	Kemper
Manning, J. T.	Simpson
Miller, M. I.	Monroe
Montgomery, M. G.	Illinois
Morrison, E. A.	Alcorn
McDonald, W. M.	Lauderdale

NAME.	COUNTY.
McKay, J. J.	Copiah
McKinney, L.	Monroe
McKinnon, M. M.	Tate
McNair, D. B.	Neshoba
Parks, E. D.	Tippah
Phillips, W. G.	Lauderdale
Posey, M. M.	Lee
Quillin, H. T.	Lee
Ragan, W. C.	Quitman
Reynolds, C. F.	Franklin
Robinson, E. L.	Amite
Ryan, J. C.	Oktibbeha
Sartor, G. W.	Lafayette
Scott, J. J.	Webster
Scruggs, J. N.	Alabama
Shackleford, E. C.	Yazoo
Simpson, E. D.	Grenada
Spence, F. D.	Alabama
Stephens, W. W.	Clay
Stinson, W. L.	Lauderdale
Stuard, J. A.	Bolivar
Taylor, W. M.	Lauderdale
Teal, H. T.	Montgomery
Terry, M. S.	Madison
Thomas, H. E.	Hinds
Tindall, J. R.	Grenada
Topp, C. O.	Lee
Troth, S. H.	Choctaw
Vardaman, B. L.	Claiborne
Watkins, J. F.	Clay
Williams, G. G.	Hinds
Williams, R. J.	Carroll
Wilson, M. J.	Jefferson
Winters, J. D.	Attala
Young, A. J.	Copiah

Sub-Freshmen.

Dulaney, T. M.	Lee
Farmer, G. M.	Marion
Hemphill, E. M.	Carroll
Holleman, J. L.	Hancock
Ingram, F.	Attala
Jennings, G. B.	Panola
Kimmons, J. M.	Alcorn
Luckett, C. D.	Attala
Marble, R. L.	Jefferson
Powell, M.	Alcorn
Saunders, W. R.	Oktibbeha
Smith, C. A.	Pike
Walton, J. W.	Coahoma

SPECIAL ENGINEERING.

Barnes, G. H.	Washington
Burton, W. E.	Harrison
Downing, C. R.	Chickasaw
Johnson, H. E.	Holmes
Marx, J.	Lowndes
May, A.	Pike
Stogsdill, B. R.	Alabama

SPECIAL TEXTILE.

NAME.	COUNTY.
Bene, L. B.	Calhoun
Cade, R. K.	Noxubee
Cline, D. S.	Panola
Fleming, O. H.	Oktibbeha
Greenham, W. S.	Bolivar
Harvey, E. B.	Clarke
Johnson, S. T.	Clarke
Jones, A. P.	Pike
Keys, C. P.	Quitman
Moak, J. J.	Pike
Morson, H. B.	Hinds
Nolan, A. L.	Yazoo
Pigford, M. A.	Lauderdale
Pippin, J. W.	Sharkey
Price, J. B.	Lauderdale
Reed, J. W.	Sharkey
Roberts, S. G.	Alabama
Seale, A. D.	Franklin
Smith, Jno. M.	Kemper
Smith, W. W.	Prentiss
Thomas, W. C.	Sunflower
Thomas, Ebb	Oktibbeha
Tinnin, A. R.	Hinds
Williams, W. L.	Noxubee

IRREGULARS.

Blankinship, C.	Jasper
Brady, J. V.	Hinds
Clay, J. O., Jr.	Tallahatchie
Ellison, W. E.	Forrest
Giles, W. H.	Tippah
Graham, F. A.	Lafayette
Hale, P. A.	Arkansas
Lindsay, J. D.	Jones
O'Neal, S. F.	Harrison
Rife, C. L.	Clay
Royals, A. D.	Lauderdale
Sims, W. S., Jr.	Hinds
Watson, W.	Monroe
Woodward, T. W.	Oktibbeha

PREPARATORY STUDENTS.

Aldridge, B. M.	Lowndes
Allen, A. H.	Bolivar
Anderson, V. A.	Franklin
Anderson, W. A.	Hinds
Ballard, J. C.	Webster
Ballard, P. N.	Lawrence
Barkley, R. A.	Union
Barksdale, H. C.	Lowndes
Barnett, G. W.	Leake
Barron, J. J.	Oktibbeha
Barton, R. G.	Adams
Bass, J. M.	Copiah
Baxter, J. C.	Hancock
Bennett, A. H	Covington
Bennett, W. L.	Winston
Betts, T. E.	Chickasaw
Billings, F. R.	Leflore
Birmingham, D, H,	Lee
Birmingham, W. J.	Lee
Blackwell, R. D.	Bolivar
Blades, M. B.	Pike
Blanchard, N. W.	Bolivar
Bobb, A. K.	Warren
Boyd, L. G.	Pike
Bridges, A. C.	Webster
Bridges, J. E.	Webster
Bridges, N. B.	Copiah
Briggs, A. E.	Kemper
*Brister, B. H.	Yazoo
Britt, J. M.	Webster
Brock, D. T.	Pike
Brumfield, C. L.	Pike
Brumfield, J. M.	Amite
Buchanan, C. L.	Rankin
Buntin, T. H.	Oktibbeha
Burton, G. E.	Benton
Butler, T M.	Oktibbeha
Camp, J. A.	Alabama
Campbell, G. H.	Kemper
Carter, R. W.	Copiah
Caruthers, C. A.	Panola
Casanova, T. H.	Hancock
Catching, W. L.	Bolivar
Cavin, W.	Wilkinson
Chancelor, J. E.	Winston
Child, E.	Copiah
Clardy, J. E.	Oktibbeha
Clark, D. F.	Kemper
Claughton, J. R.	Franklin
Cobb, W. D.	Madison
Conerly, R.	Marion
Coppidge, W. S.	Tate

NAME.	COUNTY.
Cotton, B. M.	Oktibbeha
Cowden, R. L.	Monroe
Craft, E. L.	Attala
Crosby, W. R.	Jones
Crowder, W. L.	Yazoo
Cunningham, C. M.	Noxubee
Cunningham, E. T.	Rankin
Cunningham, H.	Alabama
Cutrer, B. B.	Pike
Deale, W. C.	Noxubee
Dee, W. E.	Noxubee
Delaney, O. S.	Franklin
Dodd, O. G.	Attala
Doyle, G. S.	Yalobusha
Edwards, J. R.	Coahoma
Ellard, J. A.	Calhoun
Ellison, O. L.	Clay
Eudy, F. W.	Webster
Evans, W. K.	Monroe
Exum, R. J., Jr.	Yazoo
Fails, J. T.	Simpson
Ferris, J. S.	Yazoo
Fisher, E. M	Carroll
Fox, B. C.	Lawrence
Fuller, H. G.	Benton
Fulton, R. F.	Kemper
Funderburk, D. D.	DeSoto
Gardner, F. W.	Lee
Garza, C. M.	Mexico
Gaston, J. D.	Oktibbeha
Gates, B. W.	Panola
Gates, M. L.	Panola
Godbold, P. A.	Franklin
Grant, J. M.	Carroll
Grantham, E. H.	Simpson
Greaves, J. M.	Hinds
Guerry, N. D.	Lowndes
Gurganus, C. D.	Bolivar
Hall, L. P.	Attala
Hall, M. W.	Attala
Hamer, A. W.	Benton
Hamill, J. C.	Texas
Harbin, W. L.	Pontotoc
Harris, G. P.	Lafayette
Harris, J. H.	Chickasaw
Harrison, M. N.	Copiah
Harvey, C. A.	Pike
Hays, I. W.	Panola
Heard, G. T.	Noxubee
Hearn, B.	North Carolina
Helms, J. R.	Jasper
Hester, R. J.	Harrison
Hinson, P.	Pike
Holmes, E.	Pike
Holmes, W. E.	Attala
Holt, C. H.	Hinds
Hopper, H. E.	Kemper
Hopper, M. E.	Kemper
Howell, J. F.	Pike
Howell, R. N.	Clarke
Hubbard, E. R.	Alabama
Hudnall, H. W.	Kemper
Hyde, R. W.	Yalobusha
Hyman, E. K.	Leflore
Jarvis, G. I.	Kemper
Johnson, J. C.	Carroll
Johnson, M.	Washington
Jones, J. B.	Copiah
Jones, M. P.	Attala
Jordan, F. L.	Hancock
Keel, F. R.	Carroll
Kellum, B. L.	Choctaw
Kellum, J. H.	Webster
Kelly, W. R.	Covington
Kelly, W. S.	Yazoo
Kennedy, T. J.	Lowndes
Kestenbaum, L.	Washington
Kizer, C. V.	Tate
Lamon, H. M.	Issaquena
Landcaster, O.	Hinds
Lewis, E. M.	Marion
Livingston, E. M.	Winston
Lobdell, J. V.	Bolivar
Long, W. A.	Washington
Lott, W. E.	Leflore
Lovlace, R.	Perry
Luckey, O. B.	Sunflower
Luke, E. M.	Kemper
Mabry, J. C.	Holmes
Manning, A. L.	Sunflower
Martinez, L.	Mexico
Macon, D. M.	Benton
Mauldin, L. C.	Attala
Maxwell, J. C.	Washington
Meagher, A. J.	Yazoo
Miller, J. H.	Jones
Misso, R.	Noxubee
Moorehead, S. F.	Winston
Moran, V. A.	Copiah
Morgan, E. G.	Louisiana
Morgan, H. E.	Lauderdale
Morgan, J. C.	Jones
Morrow, I. O.	Coahoma
Morton, T. C.	Kemper

NAME.	COUNTY.
Murphree, J. J.	Yalobusha
Murphree, J. L.	Yalobusha
McArthur, H.	Kemper
McArthur, J. N.	Kemper
McBroom, S. A.	Bolivar
McCauley, V. E.	Neshoba
McCoy, L. E. B.	Scott
McDonald, H. D.	Kemper
McGehee, P. C.	Wilkinson
McGraw, W. M.	Yazoo
McMullin, L. R.	Choctaw
Nelson, G. B.	Copiah
Newbery, J.	Yazoo
Nichols, W. H.	Oktibbeha
Nixon, J. A.	Tishomingo
Noah, T. A.	Carroll
Norton, H. B.	Copiah
Norwood, J. H.	Clay
O'Neal, L.	Simpson
Oakes, A. J.	Carroll
Overstreet, N. V.	Kemper
Pace, B. F. C.	Madison
Parker, E. A.	Wilkinson
Parks, J. T.	Lee
Patterson, W. E.	Calhoun
Powell, G. H.	Sunflower
Prewitt, J.	Choctaw
Ragan, R. F.	Quitman
Rainey, W. R.	Lowndes
Ramsey, E. T.	Oktibbeha
Ransom, C. H.	Montgomery
Randall, C. C.	Amite
Reed, M. D.	Oktibbeha
Rendall, O. S.	Lowndes
Reynolds, G. W.	Alabama
Rich, C. H.	Tate
Rich, L. C.	Tate
Ricks, F. L.	Oktibbeha
Roberson, E. H.	Panola
Roberson, E. I.	Panola
Roberts, A. A.	Hinds
Roberts, A. C.	Sunflower
Robertson, H,	Clay
Robertson, J. M.	Kemper
Robertson, S. A.	Leflore
Robertson, S. C.	Marion
Rodgers, R. U.	Pontotoc
Roseberry, J. W.	Quitman
Ross, J. H.	Simpson
Rossoff, B. M.	Oktibbeha
Rothe, C.	Clay
Saunders, H. H.	Attala
Sandifer, W. F.	Pike
Schwartzberg, E.	Oktibbeha
Scott, O. C.	Pike
Seright, H. E.	Attala
Shinn, J. C.	Clay
Sigrest, C. R.	Madison
Sikes, J. H.	Oktibbeha
Simmons, J. M.	Pike
Simmons, L. M.	Pike
Simmons, O. M.	Pike
Sims, J. S.	Georgia
Smith, A.	Clay
Smith, H. L.	Madison
Smith, Jas. M. Jr.,	Sunflower
Spencer, J. A.	Tate
Spivey, H. B.	Neshoba
Spivey, M. H.	Neshoba
Stanford, J. H.	Lee
Stephens, F. P.	Kemper
Stevenson, J. N.	Tennessee
Stribbling, J. H.	Neshoba
Suber, J. A.	Oktibbeha
Sullivan, J. L.	Copiah
Taylor, G. S.	Quitman
Templeton, W. L.	Oktibbeha
Tharp, J. H.	Montgomery
Thomas, Ed	Jefferson
Thomas, Ernest	Kemper
Thomas, E. H.	Benton
Thomas, J. W.	Amite
Tirey, H. M.	Washington
Tisdale, A. W.	Jones
Tisdale, J. A.	Jones
Travis, N. B.	Amite
Tumlinson, H. M.	Oktibbeha
Vaughn, G. W.	Marion
Wall, R. F.	Covington
Wall, W. E.	Covington
Watkins, T. J.	Kemper
Weldon, D. L.	Chickasaw
White, G. O.	Tennessee
Wier, S. A.	Grenada
Wilder, R. S.	Lauderdale
Williams, C. T.	Hinds
Williams, M. M.	Noxubee
Williamson, L. M.	Madison
Wilson, C. S.	Leflore
Winborn, S. A.	Marion
Winn, S. R.	Clay
Woody, W. W.	Marshall
Wooten, A. R.	Lee
Yerger, A.	Bolivar

NAME.	COUNTY.
York, W.	Yalobusha
Young, C. P.	Copiah
Young, W.	Copiah

PRACTICAL WORKING BOYS'S COURSE.

Aldridge, M. L.	Panola
Allen, J. L.	Lee
Andrews, B. W.	Benton
Andrews, R. J.	Benton
Arnold, R. A.	Lee
Ball, P. Y.	Carroll
Belcher, J. T.	Tate
Bell, R. A.	Copiah
Betts, W. J.	Oktibbeha
Bishop, C. G.	Tennessee
Boone, R. H.	Carroll
Branning, W. J.	Lincoln
Brown, W.	Sunflower
Burlison, W.	Bolivar
Burt, R.	Copiah
Caston, L. F.	Pike
Dottery, S. B.	Monroe
Dunlap, J. C.	Webster
Dunlap, R. L.	Webster
Embry, D. T.	Montgomery
Flanagan, W. M.	Hinds
Fletcher, J. F.	Hinds
Gammill, M. A.	Choctaw
Gentry, J. G.	Winston
Gentry, W. W.	Hancock
Gordon, J. B.	Oktibbeha
Grant, A. S.	Carroll
Griffing, R. E.	Hinds
Harris, B. M.	Marshall
Harris, C.	Marshall
Harris, J. A., Jr.	Greene
Harris, S.	Greene
Herring, C. M.	Jefferson
Herrington, G. L.	Neshoba
Holowell, R. H.	Coahoma
Johnson, H. L.	Yazoo
Johnson, J. T.	Carroll
Kinard, R.	Winston
Littrell, C. T.	Noxubee
Maxwell, H. Y.	Sharkey
Meeks, W. B.	Carroll
Mims, W. C.	Oktibbeha
Moore, J. M.	Oktibbeha
McCord, V.	Calhoun
McDowell, T. J.	Carroll
McSwain, A. P.	Jones
O'Byrne, W. E.	Noxubee
O'Neal, L. H.	Simpson
O'Mara, I. T.	Pike
Perrie, F. W.	Adams
Price, C. V.	Carroll
Ray, D. B.	Attala
Ray, J. L.	Attala
Ray, L. R.	Bolivar
Reynolds, W. K.	Montgomery
Riley, J. W.	Attala
Snell, W. M.	Carroll
Stegall, J. R.	Copiah
Taylor, J. W.	Carroll
Thompson, A.	Copiah
Thornton, T. A.	Rankin
White, O. W.	Bolivar
Williams, W. S.	Claiborne
Williford, P. M.	Carroll
Wood, J. J.	Bolivar

SPECIAL DAIRYING.

Green, Edgar	Lincoln
Hartness, C. K.	Oktibbeha
McCalla, M. H.	Alcorn
Moak, C. E.	Pike
Simonds, R. W.	Alcorn
White, Nola	Lawrence

APPLICANTS FOR FRESHMAN CLASS.

Allgood, T.	Calhoun
Blair, W. E.	Clarke
Byrd, F. L.	Oktibbeha
Chandler, A. J.	Copiah
Cassidy, H.	Lee
Clark, B. M.	Clay
Davis, J. L., Jr.	Holmes
Davis, W. B.	Holmes
Gray, M. M.	Noxubee
Jones, S. H.	Scott

NAME.	COUNTY.
Martin, H. E.	Calhoun
Messer, W.	Lamar
Miller, O. J.	Hinds
Mullen, P. C.	Grenada
McCoy, O. C.	Sunflower
McKnight, H. R.	Pike
Oakley, C. A.	Prentiss
Regan, C.	Pike
Sartor, H.	Lafayette
Simpson, J. L.	Calhoun
Smith, V. W.	Attala
Swetman, D. W., Jr.	Lauderdale
Terry, R. F.	Hinds
Watt, R. E. L.	Kemper
Willoughby, L. M.	Pike
Weems, M. D.	Clarke

UNCLASSIFIED.

Allen, C. C.	Holmes
Briggs, W. R.	Lauderdale
Collins, W. E.	Pike
Gresham, C. E.	Prentiss
Holmes, J. H.	Pike
Lally, M. F.	Oktibbeha
Magee, O. W.	Pike
Simmons, O. O.	Pike
Sledge, W. E.	Montgomery
Spear, B. P.	Louisiana
Terzia, F. C.	Louisiana
Ward, C. H.	Lauderdale

SUMMER SCHOOL.

1906-1907.

Register of Students.

Adams, Miss Carrie	Noxubee
Adams, Miss Willie	Attala
Ainsworth, Mrs. D. S.	Copiah
Alderman, A. D.	
Alexander, W. M.	Holmes
Allen, Miss Fannie	Montgomery
Allison, Mr. Andrew	Jones
Allred, Miss Mattie	Lincoln
Anderson, Miss Etta	Union
Anderson, Miss Mary	Alabama
Anthony, Miss Virian	Attala
Armour, Miss Mary Eloise	Union
Attebury, Miss Edna	Attala
Atteberry, Miss Laura	Attala
Bailey, Miss Bettie J.	
Bailey, Dr. T. P.	
Bailey, W. V.	
Baggette, Miss Mattie R.	Harrison
Bailey, Miss Altha	Attala
Bailey, Miss Carrie	Attala
Bailey, Miss Lyllye	Montgomery
Bailey, Miss Lizzie	Lincoln
Bailey, Robert S.	Lincoln
Berry, J. E.	
Boll, Monroe	Rankin
Banks, Miss Odessa	Scott
Barnhill, Miss Nina	Noxubee
Barron, Miss Laura	Choctaw
Barron, Miss Sudie	Choctaw
Bedwell, Miss Minnie	Copiah
Bedwell, R. L.	Copiah
Berry, C. P.	Prentiss
Bevill, Miss Sallie Lee	Oktibbeha
Black, Miss Hattie	Choctaw
Black, Miss Mildred	Choctaw
Blizzard, E.	Union
Boggan, T. K.	Pike
Boggan, Mrs. T. K.	Pike
Bolton, Mrs. Lura.	
Bonney, Miss Gladys	Oktibbeha
Bowdry, Miss Della	Prentiss
Brett, Miss Hattie	Attala
Bright, Miss Daisy	Choctaw
Brister, Miss Willie T	Yazoo
Brown, Miss Allie Crooker	
Brown, Miss Gertrude	Kemper
Browning, Miss Maud	Holmes
Brownlee, T. B.	Lowndes
Bryson, Miss Ozelle	Lee
Buckley, Miss Minnie	Montgomery
Bine, Miss Mazie	Lincoln
Burdine, A. L.	Lee
Burkett, W. J.	Jefferson
Burney, Miss Sammie C.	Choctaw
Bush, M. P.	Jones
Byrd, B. F.	Lincoln
Campbell, Miss Alice C.	Pontotoc
Campbell, Miss Flovia M.	Kemper

NAME.	COUNTY.
Campbell, Miss Pauline	Kemper
Carroll, Miss Eva May,	Oktibbeha
Carter, Miss Kate	Noxubee
Cason, Miss Sallie	Monroe
Catching, Miss Louise	Copiah
Chamberlin, Miss Lovedie M.,	Noxubee
Clark, B. C.	Noxubee
Clark, Miss Dollie	Lincoln
Clark, Miss Mary	Montgomery
Coen, Chas. P.	Copiah
Coen, Miss Minnie	Copiah
Cohere, Miss Harriet	Pike
Cole, Miss Annie B.	Noxubee
Cole, Miss Eula	Choctaw
Collins, H. M.	
Cole, Miss Ida	Choctaw
Cole, Miss Mamie	Noxubee
Collins, E. L.	Simpson
Connell, Miss Emily	Lowndes
Coombs, G. W.	
Cooper, Miss Ethel	Holmes
Cork, J. D.	Choctaw
Courts, Miss Carry	Holmes
Crow, Miss Myrtle	Washington
Cummings, Miss Ada	Oktibbeha
Cummings, Miss Rosebud	Oktibbeha
Davis, Miss Evie M.	Yalobusha
Davis, J. H.	Tippah
Davis, Miss Mary	Attala
Davis, T. W.	Lamar
Dennis, Miss Jetta	Oktibbeha
Dennis, Miss Lucile	Oktibbeha
Dille, Miss Mary L.	Oktibbeha
Donaldson, John A.	Pontotoc
Doty, Miss Mitt	
Doran, Edwin W.	Hinds
Dorroh, C. E.	Noxubee
Dulaney, Miss Rose	Copiah
Eason, H. T.	Tate
East, Miss Clyde	Copiah
East, Miss Selina	Copiah
Easter, Miss Mamie	Monroe
Echford, Miss Marguerete D.,	Monroe
Edington, Miss Adele	Clay
Edington, Miss Merle	Clay
Edwards, Mrs. Lela	Holmes
Ellard, Miss Hattie	Attala
Ellis, Miss Elzena	Oktibbeha
Ellis, Miss Eula L.	Holmes
Ellis, R. P.	Oktibbeha
Evans, Miss Louise	Chickasaw
Evans, Miss Septima	Choctaw
Exum, Miss Sallie	
Farish, Mrs. Lucy	Yazoo
Farmer, Miss Minerva H.	Noxubee
Farrar, Miss Maggie	Lowndes
Farrar, Miss Mary	Lowndes
Felix, T. W.	Winston
Ferguson, A. E.	Lawrence
Ferguson, A. H.	Green
Ferguson, Miss May	Montgomery
Ford, Mrs. M. B.	Jasper
Foster, Miss Mary L.,	Issaquena
Foster, W. T.	Copiah
Francis, J. N.	Lee
Freeny, T. H.	Scott
Frost, Miss Ada M.	Holmes
Frost, Miss Bessie	Holmes
Fuller, Miss Gussie	Winston
Garrard, Miss Maud	Holmes
Gentry, Miss L. B.	Webster
Gillaspy, Miss Emma	Copiah
Gooch, W. D.	Yalobusha
Goode, Delmar	Union
Gilleylen, Miss Norma	
Godberry, Miss Annie	
Green, Mrs. Allie	
Green, Miss Alice	
Gordon, J. B.	Tallahatchie
Grafton, Miss Mary J.	Copiah
Graham, Miss Emily	Clarke
Graham, Miss Marguerite	Leake
Graham, Miss Olin E.	Clay
Graves, Miss Ruby M.	Copiah
Green, Erskine	Oktibbeha
Gregory, J. A.	Lee
Gresham, Miss Eliza	Holmes
Griffin, Miss Elise	Chickasaw
Griggs, Miss Lula	Noxubee
Gunter, Miss Laura	Attala
Guyton, Miss Lura	Attala
Hagin, Miss Lillie	Noxubee
Hagin, Miss S. G.	Noxubee
Hall, Arthur G.	Hinds
Hall, Miss Dannie	Attala
Hall, Miss Pearl	Attala
Hall, S. Claude	Union
Hammett, Miss Cary	Warren
Hannah, Miss Edna	Oktibbeha

NAME.	COUNTY.
Hardy, Miss Mattie Crumpton	Alabama
Harper, Miss Sadie	Noxubee
Harris, Miss Tempie	Lee
Harvey, Miss Annie	Montgomery
Hatch, Ben L. Jr.,	Washington
Hearon, Miss Estelle	Attala
Haidelbery, H. N	Coahoma
Henry, Miss Pearl	Oktibbeha
Hewitt, Miss Anna	Yazoo
Higdon, B. H.	Copiah
Hilbun, Bura	Jones
Hilderbrand, Miss Alice	Yazoo
Hill, Miss Alma L.	Prentiss
Hill, Mrs. D. A.	Prentiss
Hodge, J. S. W.	Calhoun
Holland, Miss Laney	Pontotoc
Holliday, Miss Martha T.	Alcorn
Hobb, Miss Earline	Noxubee
Hood, John T.	Copiah
Hopkins, Miss Sue	Winston
House, T. H.	Tate
Huddleston, W. S.	Jasper
Huff, J. A.	Scott
Hughes, B. F.	Choctaw
Hull, Miss Mattie Louise	Attala
Hull, W. A.	Attala
Hunt, W. R.	Lee
Huntley, Miss Helen	Lincoln
Jeffcoat, Miss Cora Pearl,	Winston
Johnson, H. H.	Holmes
Jones, Miss Emily Peyton,	Lincoln
Jones, J. C.	Franklin
Jones, Miss Lula,	Oktibbeha
Jones, Mrs. M. D.	Attala
Jones, Miss Olive M.	Copiah
Jordan, Miss Minnie	Holmes
Jordan, Miss Myrtie	Holmes
Jurnie, Miss Ludie	Winston
Kalar, Miss Addie May	Hinds
Kelley, J. M.	Noxubee
Kennam, J. M.	Hinds
Killingsworth, Miss Esther,	Calhoun
Kilpatrick, Miss Sallie	Lee
Lambert, Miss Loretha	Alcorn
Larkin, Miss Fannie A.	Amite
Larkin, Miss Thurza	Amite
Lanier, Miss Bell	Noxubee
Lapscott, Miss Nora	Monroe
Leech, Miss Hattie	Lowndes
Lemmeons, Miss Sarah	Oktibbeha
Linfield, R. P.	Wilkinson
Linton, Miss Bessie	Lee
Linton, Miss Zora	Lee
Livingston, Miss Nellie,	Oktibbeha
Livingston, Miss Rosa Lee	Oktibbeha
Love, A. L.	
Love, Miss Ruby	Bolivar
Lyona, Sunie J.	Oktibbeha
Magness, Miss Carrie	
Magness, Mrs. J. W.	Copiah
Marshall, Miss Mary	Copiah
Martin, W. E.	Leake
Mauldin, Miss Alma	Attala
Mayo, Miss Mary Helmes	Lowndes
Middleton, Miss Pearl M.	Yazoo
Miller, Miss Goldie	Monroe
Millsaps, Mrs. Annie	Copiah
Mitchell, Miss Clara	Lee
Mitchell, Miss Esther	Issaquena
Montgomery, Miss Hazel,	Lincoln
Montgomery, Miss Julia	Oktibbeha
Montgomery, Miss Mary,	Marshall
Moore, Miss Lucia B.	Rankin
Morgan, Miss Anfo	Holmes
Morgan, Miss Claude	Pontotoc
Morgan, John H.	Clarke
Morris, R. C.	Lowndes
Moseley, Miss Mary E.	Choctaw
McNeil, J. C.	
McCafferty, Miss Alice	Choctaw
McClellan, Miss Ada,	Montgomery
McClesky, H. L.	Jefferson
McCollins, H.	Choctaw
McDaniel, Miss Annie	Winston
McDonald, L. R.	Leake
McGraw, Miss Theresa	Yazoo
McKain, Miss Clara,	Montgomery
McKee, C. T.	Lawrence
McHeiven, Miss Alyne	Copiah
McLean, Miss Daisy	Carroll
McLehany, Miss Missie	Copiah
McMichael, Mrs. Carrie	Lowndes
McMullan, W. L.	Newton
McMurry, Miss Maggie	Panola
McRaney, Miss Mackie	Lincoln
McRaney, Miss Tet	Lincoln
McRee, Miss Fannie	Lincoln
McVey, Miss Grosie	Clay

NAME.	COUNTY.
McWilliams, Miss Mace	Lauderdale
Nance, Miss Annie	Oktibbeha
Nance, Miss Mary T.	
Nash, Miss Myrtle	Alcorn
Neill, C. Lamar	Jasper
Nelms, Miss Hannah	Alcorn
Norton, Mrs. Emma	Copiah
Palmer, Miss Minnie	Copiah
Parker, Miss Lena	Yazoo
Parsons, Miss Bessie	Pike
Pate, Miss Tyna	Yalobusha
Pearson, Miss Hattie	Oktibbeha
Peaster, Miss Earl	Yazoo
Perkins, Mrs. A. E.	Oktibbeha
Phillips, Mrs. Ellen	Attala
Potter, Miss Marie	Lee
Potter, M. B.	Smith
Price, J. S.	Pontotoc
Rainer, Miss May	Holmes
Reed, Miss Mabel	Choctaw
Renno, Miss Annie	Copiah
Renno, Miss Bessie	Copiah
Reynolds, Miss Clara Sue,	Alcorn
Rhine, C. E.	Copiah
Ricks, W. H.	Oktibbeha
Ridgeway, A. P.	Jones
Ridgeway, Miss N. Carrye,	Jones
Rives, Miss Cora	Winston
Rives, Miss Laura	Winston
Rice, T. J.	
Ridgeway, J. W.	
Robins, Miss May	Scott
Roberts, Miss Alice	Yazoo
Roberson, Miss Viola,	Oktibbeha
Robinson, Miss Meddie L.,	Rankin
Rogers, Miss Daisie	Holmes
Rogers, Miss Lukie	Holmes
Rogers, W. C.	Jasper
Rundle, John	Rankin
Russell, B. M.	Lincoln
Russell, Miss Daisy	Lauderdale
Saunders, Miss Ida	Chickasaw
Sartin, Miss Ada	Lincoln
Sartin, Miss Addie	Lincoln
Schumpert, Bailey T.	Union
Scott, Miss Annie	
Seavey, Miss Effie	Monroe
Sessions, Abbede	Noxubee
Shaw, O. A.	Montgomery
Shelton, Miss Katherine,	Alabama
Shelton, Mrs. Nellie	Alabama

NAME.	COUNTY.
Shoemaker, W. J.	Jasper
Smith, Miss Clara	Noxubee
Smith, W. E.	Copiah
Smith, W. H.	Holmes
Southall, Miss Edna	
Spinks, Miss Mary	Kemper
Stark, Miss Mary O.	
Stanford, W. P.	Holmes
Staples, Miss Beulah	Clay
Steele, Miss Julia	Copiah
Stennis, Miss Annie	Kemper
Still, W. P.	Lauderdale
St. John, Miss Fannie,	Noxubee
Stone, J. D.	Montgomery
Stovall, H. A.	Scott
Stringer, S. L.	Jasper
Stuart, Miss Maude	Copiah
Suilley, Miss Ella	Lawrence
Sullivan, Miss Maggie	Oktibbeha
Sultan, Miss Olley	Attala
Tanner, E. A.	Montgomery
Terry, Miss Clara B.	Calhoun
Thomas, Miss Pearl	Attala
Thomas, W. H.	Attala
Thompson, C. E.	Tippah
Thornbury, W. Y.	Monroe
Till, Miss Bell	Copiah
Till, Miss Della	Jefferson
Till, D. A.	Copiah
Till, Miss Ethel	Copiah
Thomas, S. M.	
Tilleylen, Miss Nora	Lincoln
Todd, Miss Willie	Panola
Townsend, Miss Sara A.,	Choctaw
Triplett, Miss Laura	Winston
Wallace, J. D.	Pike
Wallace, J. T.	Hinds
Ware, Miss Fannie	Monroe
Webb, Miss Sara Francis,	Jones
Welch, Miss Mary Ella	Noxubee
Whitten, Alfred	
Whisenant, Miss Stella,	Choctaw
White, Miss Hattie	DeSoto
Whites, Miss Isabel	Winston
Williams, W. C.	Amite
Williams, W. G.	Lincoln
Wilson, Norman	Lee
Wilson, Miss Ora	Lee
Windham, John C.	Madison
Winter, J.	Webster
Woodward, Jas. H.	Webster
Woodward, J. E.	Wayne

NAME.	COUNTY.	NAME.	COUNTY.
Woodward, S. L.	Choctaw	Young, Miss Ava	Copiah
Woodward, Miss Mauvine,	Attala	Young, J. M.	Harrison

SUMMARY.

Graduate Students	5
Agricultural Seniors	24
Engineering Seniors	30
Pedagogical Seniors	14
Agricultural Juniors	21
Engineering Juniors	46
Pedagogical Juniors	22
Textile Juniors	2
Agricultural Sophomores	46
Engineering Sophomores	70
Pedagogical Sophomores	32
Textile Sophomores	7
Agricultural Freshmen	63
Engineering Freshmen	68
Pedagogical Freshmen	45
Textile Freshmen	14
Unclassified Freshmen	76
Sub-Freshmen	13
Preparatory Students	263
Working Boys	65
Special Engineering Students	7
Special Textile Students	24
Special Dairy Students	6
Irregular Students	14
Unclassified Students	12
Applicants for Freshman Class	26
Summer School Students	363
Total	1378

DEGREES CONFERRED.

MASTER OF SCIENCE.

Bray, C. I.	Agricultural College, Miss.
Garner, P. P.	Agricultural College, Miss.
Mellen, F. D.	Agricultural College, Miss.
Welch, R. R.	Agricultural College, Miss.

BACHELOR OF SCIENCE.

AGRICULTURAL COURSE.

Barnett, J. C.	Madison	High, M. M.	Oktibbeha
Eastland, J. O.	Lauderdale	Nichols, H. S.	Oktibbeha
Ellett, P. M.	Tate	Parker, H. M.	Grenada
French, E. B., Jr.	Adams	Stallworth, H. W.	Lauderdale
Graham, S. G.	Perry	Stanford, W. P.	Holmes
Hairston, W. B.	Lauderdale	Walker, G. B.	Pike

ENGINEERING COURSE.

Boone, W. W.	Coahoma	McMurtray, W. B.	Yazoo
Brogan, J. M.	Clay	Rogers, W. M.	Oktibbeha
Burrus, T. H.	Georgia	Shaw, L. C.	Adams
Hardy, J. J.	Newton	West, L. W.	Carroll
Liddell, T. J.	Jefferson		

PEDAGOGICAL COURSE.

Alford, L. A.	Pike	Leigh, R. M.	Lowndes
Blumenfeld, S. F.	Oktibbeha	Miller, S. A.	Clay
Brady, B. A.	Hinds	Ricks, W. H.	Oktibbeha
Brewer, O. C.	Pike	Roberds, W. G.	Monroe
Clarke, B. C.	Noxubee	Snow, G. G.	Neshoba
Cork, J. D.	Choctaw	Strahan, W. C.	Perry
Ellis, R. P.	Oktibbeha	Thomas, D H	Attala
Lee, M. W.	Alabama		

TEXTILE COURSE.

Fife, P. J.	Claiborne

AWARDS IN 1907.

ALUMNI MEDAL.

For the Best Debate in the Junior Class.

C. N. Brumfield (Dialectic)........Pike County

MAGRUDER MEDAL.

For the Best Debate in the Sophomore Class.

C. A. Lass (Dialectic)........Oktibbeha County

REFLECTOR SHORT STORY MEDAL.

E. D. Gunning (Philotechnic)........Hinds County

DIALECTIC SOCIETY MEDALS.

Prize Declamation (Freshman and Preparatory).

C. B. Bethea........Lamar County

Prize Debate (Sophomore Class).

G. Guyton........Attala County

PHILOTECHNIC SOCIETY MEDALS.

Prize Declamation (Freshman and Preparatory Classes).

E. S. Brashier........Clarke County

Prize Debate (Sophomore Class).

A. E. Mullins........Lowndes County..

MAGRUDER DEBATING CLUB.

Prize Debate (Sophomore Class).

J. W. Sargent (Philotechnic)........Choctaw County

W. D. UPSHAW READY SPEAKER'S MEDAL.

W. G. Roberds........Monroe County

PROGRAM FOR COMMENCEMENT.
1908.

SATURDAY, MAY 30, SENIOR DAY.

11:00 A. M.—Addresses by Representatives of the Senior Class.
Edward Blanton: "The Progress of Agricultural Education."
Edgar Gunning: "The Case against Socialism."
Bradshaw Haddon, Jr.: "The Soil."
Ernest McInnis: "Engineering in the South."
Emmett Walker: "Education a Necessity in Modern Civilization."
Creighton Ward: "The First Great Engineer and Master Mechanics."
8:30 P. M.—Senior Class Exercises.

SUNDAY, MAY 31.

11:00 A. M.—Sermon by W. B. Murrah, D. D., President of Millsaps College, Jackson, Mississippi.

8:30 P. M.—Sermon before the Young Men's Christian Association, by Dr. Murrah.

MONDAY, JUNE 1, ALUMNI DAY.

11:00 A. M.—Junior Debate for Alumni Medal.

8:30 P. M.—Alumni Annual Address, by Hon. H. H. Elmore, Lexington, Mississippi.

TUESDAY, JUNE 2, COMMENCEMENT DAY.

11:00 A. M.—Annual Address by Hon. Charles Scott, Rosedale, Miss.

Delivery of Medals and Diplomas.

CALENDAR FOR 1908-1909.

Session begins	September 16, 1908.
Half-term begins	November 2, 1908.
Second term begins	December 21, 1908.
Half-term begins	February 1, 1909.
Third term begins	March 15, 1909.
Half-term begins	April 19, 1909.
Commencement Sermon	May 29, 1909.
Annual Address and Delivery of Diplomas	June 1, 1909.

HOLIDAYS.

Thanksgiving Day, Christmas (December 20 to December 31), Washington's Birthday, Annual Field-Day.

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